

QH 76.5 .07 \$254 1994 v.3 c.2 U.S. Department of the Interior Bureau of Land Management

Salem District Office 1717 Fabry Road SE Salem, Oregon 97306

FINAL

September 1994



As the Nation's principal conservation agency, the Department of the Interior has responsibility for mest of our nationally owned public lands and nature resources. This includes to staining the wisest use of our land and water resources, protecting our fish and will autor preserving the environmental and cultural values of our national parks and historical places, and providing for the enzyment foll fish rough outdoor recreated in constraints and a state and the state resources and works to assure that their development is in the best interest of all our people. The Department also has a major responsibility for American Indian reservation communities and for people who live in Island Torritoris under U.S. administration.

## BLM/OR/WA/ES-94/32+1792

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Table of Contents - Volume III - Appendices

# Table of Contents Volume III Appendices

C. 2

## Chapter 5

11	Comment Letters from Federal, State, and Local Governments	
JJ	Individuals and Organizations Who Responded to the Draft Resource Management Plan	JJ-1
	Western Oregon Resource Management Plans Common Comment Synthesis/Partial Responses	JJ-7
	Salem District Responses/Comments	JJ-67

Table of Contents - Volume III - Appendices

ii

Comment Letters from Federal, State, and Local Governments

# Appendix II Comment Letters from Federal, State, and Local Governments

## **Table of Contents**

Liz Vanleeuwen, Ben Stout, and Marlin Aemi	1
Linn County Board of Commissioners	1
Salem District Advisory Council	2
City of Salem, Public Works	6
Association of O & C Counties	6
Tillamook Board of Commissioners	11
Linn County Board of Commissioners	12
Benton County Board of Commissioners	12
U. S. Fish and Wildlife Service	13
U. S. Environmental Protection Agency	16
City of Drain, Oregon	25
Oregon State Senator Gene Timms	25
U. S. Forest Service, Pacific Northwest Region	26
U. S. Forest Service, Siuslaw National Forest	28
U. S. Forest Service, Waldport Ranger District	29
U. S. Bureau of Mines	29
Oregon State Representative Delna Jones	29
Office of the Governor, State of Oregon	30



#### POSSIBLE QUESTIONS FOR MR. BIBLES DECEMBER 16, 1992

From what we have seen of Wilderness Society and State Forestry comments on the BLM Resource Management Plans (RWP) there comments are lacking: the economic side.

From my perspective the cost side of the planned activity is addressed. There are two aspects of this: biological and addressed. financial

The biological perspective is this. The most valuable spectra or our wat slowed spectra of the spectra of the spectra (concurrent on a def grade best ultitot that, biology. The first spectra of the spectra of the spectra biology. The first spectra of the spectra of the spectra biology. The first spectra of the spectra of the spectra biology. The first spectra of the spectra of the biology. The first spectra of the spectra of the spectra biology of the spectra of the spectra of the spectra biology of the spectra of the spectra

In partially shaded areas there are other species in the wort side forests that are better adopted to these conditions they are species like the typical standard to the conditions they are species like the typical standard between a lower velue. So, the affect of the planed management is taken to protocle species volume and the volume produced is of lower velue. The State's content on the arosses sill/caltural amagement is that is an anti-tis procedure and attrictly the state is an anti-tis procedure and attrictly and the state of the state state of the state of experimentel

This concern leads to these questions: New large is the mergin of error in the growth prodictions that you have for this new type of silviculture? In your growth calculations have you factored in the slower growth rate of the shade tolerant species income to counties have you factored in the lower value of the theor to be produced?

The second second second second of the first is mentioned in the circle grant rises and the second second second second is the value of the green trees that are left. Somewhare between stocks and second second second second second second are to be left and not harvestad. This is reflect maxes sech are worth that man, is the arguing second sector sector different isocia of investments at a very nodest interest rate in bub rises and only market at a very nodest interest rate. Name rate sould only market four sectors.

The questions that come out of this: Have you shown clearly to all concerned what the actual cost of this new management

DEC-21-1982 13:35 RECH LINE COUNTY m 17775622 0.01

LINN COUNTY BOARD OF COMMISSIONERS 393

Commissioner	Commissioner	Committelever
Line County Coorthouse P.C. Ros (OL, Alberty, Orspon 67281 (PO) 967-0828 FAX: 525-4828		EAUTH E. BYATT Administrative Officer

December 21, 1992

are of Land Management Salem District Office 1717 Fabry Road SE Salem, OR 97306

Dear Sire

The Linn County Board of Commissioners appreciate the opportunity to respond to the Scient District Draft Resource Management Plan and Environmental Impact Statement. The Board considers the mlationship between our agencies to be a positive and constructive suttainship. We particularly appreciate the working missionship directed toward community outdoor recreation development in eastern Linn Co

The planning issue that impacts the residents of Lian County the most seriously is the major referction in Alformatic Sale Constity (ASC) to about 57% of the "no change alformative". This reduction will result in significant reductions in logging and mill jobs as well as reduce the services provided by the Courty. Ultimately, the tax base will decline and public service demand will increase take to due not subclustion in family major plots in Lian. Courty

We believe that there are good reasons to increase the ASQ above that projected in your Preferred Alternative (PA). Rather than elaborate in this letter, please refer to the response received from the Association of O & C Counties for comments reflecting those of the Lion County Board of Communications.

The recruition development is the Outrowline Creck and Green Penn Reserveir must be regression. The terms development of the RMA pushtume adjuster to the second second second second second second second second Late to Concretific Creck links would be a project that the Sound would wholeheated the second second second second second second second second second links and the second second second second second second second parameters and the second parameters in the desired of the Constant Reserved second second second constant Pennet Second sec

system really is? The RMP uses very high future stumpage values to show that the cost is minimal. They assume that stumpage values will more than double in the near future: OSU planners for the McConald Forcest are using much more modest increases, in the way of 1% per year

The arg of 15 per year. The same to this question will be that we are ipported all assations and the same of the same of the same of the same that saving the posted and and the marriest produces a value in what the costs per source of the same of the same of the same with the costs are of saving percent when and understand what the costs are of saving percent with the same and what the costs are of saving percent of the same of the same cost of the same of the same of the same of the same cost of the same of the same of the same of the same cost of the same of the same of the same of the same cost of the same of the same of the same of the same cost of the same of the same of the same of the same cost of the same of the same of the same of the same percent of the same of the same of the same of the same percent of the same of the same of the same of the same cost of the same of the same of the same of the same the same of the same of the same of the same of the same the same of the same of the same of the same the same of the same of the same of the same the same of the same of the same of the same the same of the same of the same of the same the same of the same of the same of the same the same of the same of the same of the same the same of the same of the same of the same the same of the same of the same of the same the same of the same of the same of the same the same of the same of the same of the same the same of the same of the same of the same of the same the same of the same of the same of the same of the same the same of the same of the same of the same of the same the same of the s

Finally. In the process of letting the public know the costs of the plan, two additional aspects of cost need to be addressed.

The State argues cogently that BLM will need greatly increased budgets to carry out this new menagement, that it will be much more costly in terms of manpower to effect. Are you convinced that with the budget deficit reductions which we heer are to be put in place that you can succeed in getting the necessary increases in the 8LM budget?

The effect of reduced Limber harvest must result in one of the adjustments in the way we need four building material mede. Silver all not the first case was appended to the source of the problem oversas to meet society's needs. In the second case a shift to other saterials-reduce (concrets, alwain-meet) of while use feesi fuels that result is significantly higher environ-mental insets than well tended forest and the products which mental inp therefrom.

We unse that the final RMP-EIS address these questions in e forthright manner.

House Dot: 37. Rep. Liz Van Leur Jooo Insk Band 40. Jooo Insk Band 40. Halsey, OR 97378 Feery, B. Street 1545 Takana St. SW Male Geni (1897 19.00 364) 1867 18.00 47521 Reall PIU Doubt 1187 19.00 364-1187 Reall PIU Doubt 1187 19.00 364-1187 13755622 P.02 DEC-21-1992 13:36 FROM LINN COUNTY

Bureau of Land Management

December 21 1992

.2. The Board very much appreciates the efforts of BLM personnel in providing information and assistance to Lian County. We urge you to consider our views and look forward to an outcome that will provide stability and the best possible quality of life for Lian County residents

#### Sincecely.



Van Menning - District Manager Selem District BLM 1717 Febry Rd. SE Selem, OR 97306

December 21, 1992

RE: The Selem District Advisory Council Comments on the BLM Selem District Lond Use Flam and Preferred Alternative.

Doer Mr. Manning:

Ploses find streamed the report of the BLM Selam District Advisory Beerd regarding the District Land Wee Plan & Proferred Alternetive.

As you are more we have hed many work essigns. I do holieve his our report represents a minimum of 360 hours of work. The report relices the concern resched with a much delibaretion. Therefore, we as a Council restfirm our prior work to you. The focusate are relicitive of momentum of the Advicer Council.

The Advisory Council hes requested that I direct the following

The Marinery Council has reprosted that i direct the course-operative return of investment for the solution. The solution of the solution of the solution of the linear reserve measurement index the 100 for a more partian for the solution of the solution of the solution of the end of the solution of the index of the solution of the solution of the index of the solution of the solution of the solution is the solution of the solution of the solution of the index of the solution of the solution of the solution is the solution of the solution of the solution of the solution is the solution of the solution of the solution of the solution is the solution of the solution of the solution of the solution is the solution of the solution of the solution of the solution is the solution of the solution of the solution of the solution is the solution of the solution of the solution of the solution is the solution of the solution of the solution of the solution is the solution of the solution of the solution of the solution is the solution of the solution of the solution of the solution is the solution of the solution of the solution of the solution is the solution of the solution of the solution of the solution of the solution is the solution of the soluti These

We request that the DLM mitigate this loss and lessen the community instability by reducing the rotation egs. The Council fashs that 13 MMBP could be gained by moving from a 30 year to a 60 year motation for the GMA.

We believe the BLM has a responsibility to the people of these communities. It should mitigate the impact of these abrupt changes in management policy.

Respectfully submitted,

Gratia Robertson, Chairperson Salen District Timber Advisory Council

The BLM should attempt to control all insects and disesses by ell means nacessary in order to prevent their spread, 2)

We must make our own hest judgments without being totally constrained by the Endangered Species Act. Feeple and community stability ere factors that are not being sufficiently secounted for under present interpretations of the EBA. 11

4) Community Stability: Approximately 65 of record in half by Description of the stability of the stability of the stability bases attributed for eccount activity. This activity provided employment in the high wege has forcest products area and the memory argoprizativities. Presently Dreport account is stated on the state account for allocal to 80 of the employment base. (The rural sectors have been defined as these states outside the greater Fortland, Downs and Been and States activity of the state account for allocal the sector state outside the employment base. (The rural sectors have been defined as these states outside the greater Fortland, Downs and Been and States activity of the state sectors have been defined as these states outside the greater Fortland, Downs and Been activity of the state sectors have been defined as these states outside the greater Fortland have been defined as these states outside the greater Fortland have been defined as these states outside the greater Fortland have been defined as these states outside the greater Fortland have been defined as these states outside the greater Fortland have been defined as these states outside the greater Fortland have been defined as these states outside the greater Fortland have been defined as the states account of the state states fortland have been defined as the states outside the greater fortland have been defined as the states account of the state states fortland have been defined as the states outside the states fortland have been defined as the states outside the states fortland have been defined as the states outside the states fortland have been defined as the states outside the states outside the states fortland have been defined as the states outside the states fortland have been defined as the states outside the states outside the states fortland have been defined as the states outside the states ou triangle.)

There are strong influences being exerted on this state of the national level regarding the uses of the federal lands. The west and the northwest in particular have experienced treasendous preseures to redirect the utilization from sconomic activity to environmentel, recretional and et lands. aesthetic values.

The northwest is unique regarding the impacts from the representional and empiromental movements which were driven out and effect on the people and comunities of Gregon is a very real concern. Within the last J-5 s normaental mhift has taken place in natural resource allocation. This shift has made a massive offect on the people and communities of Gregon. Their vibility and welfers is a very real concern.

2

12/11/1992 14:39 5098433830

THE SUN NEWSPAPER

PARE DI

ISSUE 1 - TIMBER

GENERAL OBJECTIVE; Hanage lands allocated to timber production to optimize yield and maximize economic return.

MANAGEMENT GUIDELINES. Establish a acientific non-agency team to review non-suitable commercial forest land designation on large land ereas. Set rotation length to maximize economic return to the public. Meet or exceed Oregon Forest Practice Act guidelines. Implement an appressive program to improve/maintain forest health. specifically to control insects and disease infections. Une prescribed fire consistant with state law. Continue to participate in the Oregon state system on forest fire control. Keep the ennual timber cale level near recent historical levels as in current plan.

FOOTAGTE

attanting full-conjugation of the second sec

Alterial and a second s

VOTE WAS 7 TO 2

#### MAJORITY OPINION

ENERAL GARCETVE. Retain, maintain or reastablish old-growth and/or mature forest babicats within the limits of the management guidalines to meet various resource objectives, and manage habitet to support oppulations of metive wildlife species.

NANACENENT GUIDELINES. Through 200-year rotation maintain 6 percent of the total district's land base in old growth cycle.

## MINORITY OFINION

## GENERAL OBJECTIVE. Same as above.

MANAGEMENT GUIDELINES. Through 200-year rotation maintain 6 percent of the total district's land base in old growth 200 year old forset at all times.

## OPERATING CONCEPT.

Old growth and other set-asides should be done together - that is dual purpose.

## Footword

The second dependence is a statistical by the advanting of the second dependence of the second secon

habitat probabilat habitatili IB tab prefarred alternative should allow an improvement in habitat diversity over past practices.

593+943+8155

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P. 02

ISSUE 5 - SPECIAL AREAS

ATTALL CALIFITY. Provide special wangament for all-the QLF-steinlistared limit to prevents irreportable damage to important MixioTie, exityral or senic values; to proceed buttanels or finds and villility sectores are order narrant systems or presentes; and to prevent life and eastery from asturch heartd. MARMINET CHILLING. Provide special management for the sream lifetd manar "yet" on the attached series.

## ISSUE 4 - THREATENED AND ENDANGERED SPECTES

GENERAL GARDETIVE. Protect federally listed threatened or andangered plant and animal habitats and manage resources to provent future federal listing of plants and animals as threatened as andangered opecies.

THE SUN NEWSPAPER

PARE ER

NUMAGEMENT GUIDELINES. Manage all Rid-administered lands to support the conservation and protection of all federal candidate, state listed, and bureau sensitive speciae and their habitate. Mitigets where commentally femeilse.

Freetworr

2/11/1992 16:38

Potential Special Areas

Aless Bay Inland Yanpo	ч	ź	Ĩ	Y	r	x	anti mahanan
Walkar Fist Walls Island	*		Ĩ	ĩ	ź	x	no ACEC
Wilhoit Springs Whits Rock Fan			Ŷ	ź	Ŷ	x	nanage timber
Shafar Crack/Crab.			Ŷ	Ŷ	Ť	ž	RRA/ONA
Forant Pank			Ŧ	Ŧ	Ŧ	-	no spac. dasig.
AGPEN SERVICE	Y	r	Y	Y	Y	x	

es Keep managing timber in ageondary zone.

۰	с		1	5	d,

id I = mests common siternatives criteris; X = preferred by Advisory Council

		۵	1terns	APTIC			
Existing Special Areas	٨	B	2	₽	E	EA	Remarks
Grass Mtn.		Y	¥	Y	Y	x	RRA
Hary's Pask		X	T	T	Y	x	
Sandy River		T	Y	Y	Y	x	
Williams Laks		Y	T	X	T	x	
Soossp Meadows		Y	Y	Y	T	x	150 80748
Carolyn's Crewn		x	Ŷ	Ŧ	T	x	RMA
Middle Sentian Terrace		T	r	Y	¥ ·	x	
High Peak-Hoon Cr.		Ŷ	Y	Ŷ	¥	x	ENA
Sharidan Peak		Y	Y	Y	Y	-	no spec. desie.
Big Canyon		Ŷ	Y	Ŧ	Ŷ	x	
Elk Crack		Y	T.	v	¥.	x	**
Nontuces River		x	Y	÷.	Ŧ	x	**
The Butts		Y	Ŧ	Y	Ŧ	x	PRA
Saddlaback Mtn.		Ŷ	T	÷	v	T	DHA
Little Sink		7	Ŷ	Ŷ.	Ŷ.	T	DNA
Valley of the Giants		Ť	Ÿ	ÿ	v	x	Pin Os
L. Grass Mtn.		÷.	v	÷.	v	*	
Yaquine Hand	T	÷.	v	÷	÷.	-	Cons desta
Lost Preirie		Ŷ	Ŷ	÷	Ŷ	Ŷ	oner anneb.
Rickreal Ridga		÷	Ŷ	÷	÷	¥	
Larch Htn.		Ŧ	Ŧ	÷	Ŷ	Ŧ	
Villametta River Paresia	Y	Ŷ	Ŷ	Ŷ	Ŷ	x	

Appendix II-3

## Appendix II

## ISSUE 6 - VISUAL RESOURCES

GENERAL OBJECTIVE. Manage BLN-sdministared lands to reduce visual impacts of management activitias and to enhance visual (scanic) quelity.

MANAGEMENT GUIDELINES. Provide VRM classes I through IV management using allocations in the current MFP (approximates alternatives B).

## The vota was 6 to 3. MAJORITY OFINION

GENERIC GUEDETEVE. Breablish riparkan management areas (ROAs) on paraminial stramm, lakes, ponds and other watare, to meat Oragon Forant Frechises hot requirements, Gregon watar quality standards and to retain biological diversity in these high value bahirer areas.

## MANAGEMENT GUIDELINES.

All activitias would be designed to meet of the set of

Foot Rote

p-calling alternative designs of definitions of excitations for the sector of the

## ISSUES 7 4 8 page 2

ISSUES 7 AND 8 - MATER/RIPARIAR/WATER QUALITY

CHIERLA ORFECTIVE. Escabilab ripariam managummt areas (BHAs) en personial areasas, labas, pende and ther waters, to seat Oragon Forest Practices Act requirements, Oregon water quality standards and to retain biological diversity is these high walve habitst areas.

MANAGEMENT CUICELINES.

1. For allowable timbar sale quantity calculation purposes, use the following

RMA widths for parennial atreams:

tream Order	EMA width1	
1	25'	(minimum)
2	50'	(sversge)
3	75'	(average)
4 *	100'	(average)
5	140'	(average)
6	160'	(average)
akes, pends	100*	(average)
ad athen waters		

<sup>1</sup>Oistance from sdge of wster in fest. Attual BMA widths would be determined by on-the-ground riparian wegetation, terrain and stream characteristics. Roo-personnial streams would have BMA designated if beneficial uses warrant. 2. Within first and second order BMAs, harvest commercially valuable trees in

- Within first and second order EMAs, hervest commercially valuable trees in accordance with Oregon Forest Practice Act (OFPA) requirements.
- 3. Within third and higher order DMA, compiler as lands "weilholdy" for lineasive tables management (i.e., effored for allo a sport of the allowed) asile quantity). Some timber horsest may scene, however, to allower research management objectives. Dank activities may include read comstruction may verific quartifacture cross streams and afforms in program for initiate tables horsest evolution the DMA. Tables runtance in proving correctors would be lift or arowed into the very to provide for habitato.
- In sreas adjacent to EMAs, modify timber harvest as nacessary to protect vegetation within the EMAs.
- Legging, read building and sits preparation methods would be designed to minimise the number and/or size of mass soil movements and to maintain the integrity of the BMLs.
- Activities such as mining, recression and ORV use would be regulated to protect water quality.

page

ISSUE 9 - RECREATION RESOURCES

GENERAL OBJECTIVES. Provide developed and dispersed recreation opportunities.

MANAGEMENT GUIDELINES.

- Continue to manage 12 existing developed eitem. Within these sites, consider no lands evailable for intensive tuber management. Some harvast may occur for purposes of removing dead, down or dying trees and removing trees for purpose of axegonding recreation frolificies.
- Consider davaloping 11 potantial recreation sites but continue to manage the sites using a partial timber hervest regime.
- Do not designate the following areas as special reoration management areas (SRMA); Nastucca River, Crabtree Laka and Marys Paak.
- 4. Designata Green Petar Paninnula es an SRGM: prepara a coordinatad resource Ranagement plan, develop recreation facilities, mange tiabar using a partial harvart regime. (5 votes for this option) preference for size vas 4 for 400 acres and 1 for 2,100 verses)
- Designate Nt. Hood Corridor as an SRMA: prepara a coordinated rasource management plan, continue to manage devaloped

recreation facilities, no plenned harvast our timbar within 1/4 mils of Highway 26.

- 6. Continue to menage 7 existing developed treils (3 treils are in special management areas; 4 treils ers in areas managed for timber production).
- 7. Davalop the potential Mastucca Rivar trail (located within the riperian zons) and the potential Green Remor trail (located with riperian zons, fregils sites and areas managed for timber production.
- Do not change management plans on areas continguous to axisting or proposed trails.

ISSUE 9A - WILD AND SCENIC RIVERS (raviand)

GENERAL OBJECTIVE. Menage dasigneted wild end scanic rivers. MANAGEMENT GUIDELINES.

- Menega four Congressionelly-designated river segmenta consistent with their designation and approved, site-specific management plana.
- Do not study additional river segments for suitability and do not provide interim protection for edditional river segments.

ISSUE 10 - LAND TENURE ADJUSTMENT

CENERAL OBJECTIVE. Make land tenure a justments to improve management afficiency and benefit resource program objectives. MARACEMENT GUIDELINES.

page 1

Establish the following land tenurs adjustment zones:

- fons 1 This zone includes areas currently identified en beying bidp public resource values and other afficiently managed lands. Generally, they would be retained in public oversector.
- 2. Sone 3 This some includes erses that are multable for axchange because they form discontinuous eventable patterns, are lass efficient to aware than some 1 lands, and say not be accessible to the general public. Where oppropriets opportunities are identified, these DUF-obsistence lands may be axchanged for othat lands in some 1 or 2, trendsfored to other public semclas, or given some form of cooperative anaccessit.
- 3. Zone 3 This zone includes lends that are scattered and isolated with no known unique natural resource values. Jone 3 lands are evailable for use in exchanges for private inholdings in zone 1 (high priority) or zone 2 (moderate

Leeue 10 paga 2

priority). They are also potentially suitable for disposal through sals if not important values are identified during disposal classing reviews and no visble acchange proposals for thms can be identified. Ican 3 lends would also be evailable for transfer to another equacy or to local governments an medded to accommodate community apparies and other public purposes.

Use the following guidalines in initiating and/or reacting to specific land tanure adjustment proposals:

- Exchange O&C lands to coguire lends which would anhance timber menagement coportunities.
- Exchange public domain lends to benefit one or more of the resources managed.
- Sell and/or lasse G&C lands (other than available commercial format lands) and public domain lands that must any of the criteria of FLEWA section 203(e).
- 4. In some 2 and 3 lesss or convey lands under the Recrection and Fublic Purposes Act to provide oppropriate facilities or services (e.g., recreation sites, rurel fire atetions, and vector treatmant planes).

ISSUE 11 - RURAL INTERFACE AREA MANAGEMENT

Manage BLN-administered lands in rural GENERAL OBJECTIVE. interface areas to achieve agancy management objectives for those lands while addressing conflicts with neighbors.

MANAGEMENT GUIDELINES. BIN forast management actions within 1/4 mile of rural interface areas shall be governed by compliance with the Oregon Forast Practicas Act and the raquirements of Land Conservation and Devalopment. Local management is encouraged to work with adjacent property owners to address concerns and with local governmant to identify RIA concerns of BIN.

The BLM should sttempt to control all inscots and disesses by sll means necessary in order to prevent their spread. 21

We must make our own heat judgments without being totally senstrained by the Endaments Spacies Act. People and community exhality or teology that are not being sufficiently scoounted for under present interprotations of the EEA. 3)

4) Community stability: Approximately 50 of orogon is held by the federal government. Tradition, the section is not approximately approximately for the section is provided approximation in the high weaks have required as an approximately the section of the state account for element of both of the employment base. (The rural sector base of the tradition transformed base) of the state account for element of the of the employment base. (The rural sector base) of the desired transformed base. The rural sector base of the desired base of the state account for element of the desired base. triangle.)

There are strong influences being exerted on this state at the notional level regarding the uses of the federal lands. The west and the northwest in perfluence have superimeded tremendous pressures to redirect the utility of the accompute activity to environments. Interestional and acsthetic values.

The northwest is unique regarding the impacts from the recreational and environmental movements which were driven by the offlower 180°s. The impact of like of orthone out and effect on. Within the last 3-5 a nonumental heift has taken place in natural resource allocation. This shift has had a massive effect on the people and communities of Oregon. Their vibility and welfare is a very real contern.

Occepher 17, 1992

Mr. Van Manning Bureau of Land Management Salem District Manager 1717 Fabry Road S.E. Salen, Oregon 97306

SUBJECT: SALEM DISTRICT RESOURCE NANAGEMENT PLAN AND ENVIRONMENTAL IMPACT STATEMENT

Dear Mr. Manning:

Based on the information in the R.M.P. and E.I.S., the following our comments.

Preferred alternative

a. We feal that it is essential to buffer first and second order streams with a minime buffer of 75 fest. In reference to epherent streams, hendware threams, and steep draws with grad-ents of 28 per cent or more, a 95 foot no-burn, undisturbed buffer of groups depeticing headling is incorporated in the unit of the streams. The stream stream stream stream streams are stream 79 per cent of the total stream nileage on the vestern side of the canadas.

If we can control the quality of water entering these small streams, it will carry on down to the larger streams where 200 and 300 foot buffers are incorporeted for fisheries. It is the to go to the top of the ridge, at the source of sediment loading to improve water quality.

b. Hith the new 1959 revisions on densatic drinking vacual standards, we fiel that serial herbickles apraying thould be discontinued. A nore direct application should be used. Aarial fartilization is also a concern with the new requilations. Buffare should be used throughout the samegenerit area. A 100 foot buffar should be used throughout the samegenerit area.

Sinterely.

114. 1- Yaht Water Source Supervisor

cc: Dan Bradley, Weter Superintendent Hank Wujcik, Water Source Attendant IMPCT.STA/HS/psw

Appendix II-6

403 GON

ASSOCIATION OF O&C COUNTIES

December 16, 1992

Mr. Van Hanning, District Manager Bureau of Land Management Salen District Office 1717 Fabry Roed, SE Salen, OR 97305

Dear Mr. Manning:

We welcome this opportunity to provide written comments on the Draft Resource Management Plan and Environmental Impact Statement (DRMF/EIS) for the Salam District.

#### Purpose of OAC Lands

By usy of introduction, the association of out Counties (association, the repeated on wase metherally includes all 1 dreagon counties in which the 3.5 million acres of Oregon and California Balloud Haveted Ostate Lands are loaded. In order to understand the Association's point of view viaitive to the recount the million history of these lands, which were set aside long app for the purpose of providing load community stability through the dominant was of these lands for theme production.

Beginning with the 1865 grant, the Revestment Act of 1916, and the 1937 G&C Organic Act through the present, these lands have been scaturolly recognized as having a local purpose and they are to be managed for the stability of local communities and industries through the production of timber under the principles of sustinda vield.

The 1937 Act directs the Department of the Interior to manage these unique lands under the conservation principles of sustained yield primarily for timber production and only secondarily for other, limited purpose listed in the Act. The Federal Land Policy

Mr. Ven Manning, District Manager Salen District Office 12/16/92 age 2

and Management Act of 1976 (FLPMA) specifically exempts the OSC lands from the provisions of FLPMA in the event of conflict with or inconsistency between FLPMA and the OSC Act insofar as they relate to the management of timber.

relate to the management of tuber. The dedication of them states in local purposes has inspired that of reselution of them states in local purposes has inspired share of reselution of them states do right purposes have the states of the states of the states of the states of the share of reselution of the states of the states of the share of reselution of the states of the s

## Judicial Affirmation of OAC Act

Recent joilcial opinions here affirmed that the oil lands are reserved for purposes different from other federal lands. Other federal lands are typically managed to eccouplish national objectives. The Oil lands are to be managed for the based land. Someony and the provide community stability. Timber production is the dominant uses for these lands.

This policy has been clearly end unitatably confirmed by the U.A. Whith Circuit Court of Appeals in the 1990 case, <u>Resources of the content of the configuration</u> <u>Resources of the configuration in the content and a sequent</u> former is a goal on e par with timber production, or indeed that is is a goal of the OCK Act at all."

This position has been clearly stated in previous ceses by the Ninth Circuit. In 1987, the Court acknowledged "...the primary use of the revented lands is for timber production..... <u>O'Neal vs.</u>

This ruling was consistent with the prior statement of the Court that "[i]n 1937 Congress passed the OAC Sustained Yield

Mr. Van Manning, District Hanager Salem District Office 12/16/92 Page 4

lands in your district is reduced as proposed in the Preferred bid starter. The starter between the starter bar and the starter of the starter bar and the starter bar and the starter bar of the starter bar and the starter bar and the starter property of the starter bar and the starter bar and the starter bar and the starter bar and the starter bar of the starter bar and the starter bar bar and the starter bar and the start

Lumenserve warm damainsed capacity to remposed to Rices all meddi-Dr. Les' findings also discuss the input of unexployment to individuals and supported that the quick fit of times worker estate. "Proof superior of the compliance of the superior of the state." Wrool superior of the compliance of the superior of the state." Wrool superior of the compliance of the superior of the state. "Wrool superior of the compliance of the superior transmission of the compliance of the superior of the state." Wrool superior of the superior of the superior at the superior of the superior of the superior of the state superior of the superior of the superior of the state superior of the superior at the superior of the superior of the superior of the super-solution of the superior of the superior of the super-sonant superior of the super-sonant superior of the superior alting occupations can be superior of the su

ut, assuming thet the individual displaced worker is abl But, assuming that the individual displaced worker is able to seaves difficulties in viewing "retraining" as the complete solution to the social and economic problems likely to result from the large reduction in the ASQ as proposed in the Preferred discussed nors fully in a mesorandum filed with the Endangered discussed nors fully in a mesorandum filed with the Endangered provide the file of the State discussed nors fully in a mesorandum filed with the Endangered state of the State Mr. Van Manning, District Manager Salem District Office

Act...which provided that most of the OSC lands would henceforth be maneged for sustained yield timber production." Skoko va. Andrus.

In 1986, the Solicitor of the Department of the Interior rendered an opinion dealing with the OSC lands, in which he said, in part:

> "The freedom conferred to the Sacretary (of the Interlor]...is limited in one important way on cartain federally-owned timberlands in western Oregon. There, any docision about managing morthern spotted owls much be measured against the dominant use of there meduation spotted owls timber production.

> "Plainly, on lands subject to its provisions, the OAC Act creates a dominant use--the production of timber on a sustained yield basis

> The deciding whether to establish a bit deciding whether to establish a bit tabertade, the Secretary then, such that the secretary that the secretary there derives to construct the secretary and the secretary that the secretary set there -times production. If a proprie use the secretary that the secretary set the secretary that the secretary set the secretary secretary to the secretary set the secretary secretary set to secretary the secretary secretary secretary secretary secretary secretary secretary secretary times production is desimant. (Expansis added.)

The Association is concerned that the DRMP/EIS contains no methon of this oritically important history, nor makes any reforence to the important judical decisions which have been handed down relative to the OLC lands over the years. In fact, except for a listing in Appendix 1-A, the document all but imports

#### Social and Economic Consequences

The Association is also very apprehansive about severe commonic and social consequences which would follow from a deciaion by the Bureau to manage the GC lands as set forth in the Preferred Alternative (PA) in the DRM/RIS. Many of Oregon's communities will be devastated if the Allowable Sales Quantity (ASQ) on the GEC

. Van Manning, District Manager lem District Office

Post-Hearing Memorandum in Support of Exemption Requested by BLM." Affidavits and exhibits in the record of the ESC hearings substantiate the points raised in these comments. The BLM is already in possession of these supporting materials.

of the thousends of timber and wood products workers who have lost their jobe in the last three years, most have been unable or unwilling to obtain job retraining. There are insufficient funds to eeve those currently unemployed and additional funding in significant anounts is unlikely to serve a flood of nawly unamployed.

The typical worker who setually is able to enter a do-training program is make, of years of age, has been in the work advantant. Thirteen present of those who entered multiprogram as education. Thirteen present of those who entered multiprogram as a setual of the setual off from the thirteen and wood products industry have spent that working careers in that industry and have if we that reacher lines in communities where the wood products industry have spent that working careers in that the wood products industry is an expendically and and any setual the wood products industry have spent that working unruly dominant

Of those who do make their way into job retricting programs the placemast success has been relatively yood. Any increases in unemployment, however, will result in a reduced placement rate. Now expart has stated, "Dislocated workers are already baing one expart has stated." Dislocated workers are already baing white retricted or pot."

In addition, for those who make it into retraining, then complete retaining, and see placed, there is allocat always a substantial reduction in wages from those earned in the wood products industry. In Lane County, the average is 23.00 per hour reduction. In Douglas County, the average wage reduction for those lucky few who make it into and out of retraining is \$4.64 per hour.

The costs of percenting are subservid. The mass obvious costs are the first retraining costs. These targef from 5/800 to 50.459 per worker trained. Other costs include FML press, which ummploymes benefits, which cortaily are 5300 per veck for appeared from 10 weeks to 19 weeks to charaction of benefits. In appeared to 10 weeks to 19 weeks in 2000 the 20 weeks of appeared to 10 weeks to 19 weeks in 2000 the 20 weeks of the appeared to 10 weeks in 1900.

From the foregoing, the following conclusions are inescapable:

- Funding is adequate to provide retraining to only one-third to one-half of those currently unemployed. Substantially increased funding is not available.

Mr. Van Manning, District Manager Salen District Office 12/16/92 Page 6

- For those who are served, the job placement rate may decline in the future. Any increase in unenployment will be net with lower retraining success rates.
- Those who are placed in new jobs suffer substantial wags
- Tob retraining is expensive.

are very real and severe economic and social all sffort should be made to mitigete spainst These consequences and all these inpacts.

#### Recommendation for Proposed Action

The OAC Act, its history, and the judicial decisions which have been rendered relative to it and the impact on local government represent the service, the hores to solve the propeed Action is Alternative B. Essentially, this would continue the current law as elicocinous coupled with the advantage of an updated timber investory. We urge you to give Alternative B carriel consideration whan deciding upon the frequeed Action of the Market State of the second second second second second second second second consideration whan deciding upon the frequeed Action for your Resource Management Plan.

your sectore management Plan. Nowver, 1 is is determined that compliance with the management species act (BAB) precludes the samplion of Alernative on the condition that cortain the component of the Predered byothe Sectore that cortain the company of the Predered shows and the condition our support of the Predered shows and the condition our support of the Predered shows and the condition our support of the Predered shows and the condition our support of the Predered shows and the show that is not allowed by the OC Act, it is barves be as the highest satisfield with the statistic statistic predered the shows and the statistic our support statistic predered the statistic statistic our set of the statistic predered have such as the SLA Will we are not opposed to management for mortilable values, such management should occur does not appear to recognist the constraint of the OC Act, not does not appear to recognist the reduction in harvast levels with the reduction of the SLA will be such a statistic the SLA Will we with the reduction of the SLA Will we constraint of the OC Act, not the statistic predered the statistic out the SLA Will we with the statistic predered the statistic out the SLA Will we with the statistic predered the statistic out the SLA Will we with the statistic predered the statistic out the SLA Will we with the statistic predered the statistic out the SLA Will we with the statistic out the SLA Will we will be statistic out the SLA Will we will be the SLA Will we w

All blds having been said, if may be that the philosophy of the Fredered Alternative, "coveries management," can arbit be utilized within the proper statutory framework. This would depand in large part on Wathing Antrowes levels under the prederrad dompliance with the harvest levels required by the commanity stability requirements of the GGC Act while not exceeding

Mr. Van Menning, District Manager Salen District Office 12/16/92 Page 8

We have also expensed to the faces lister that woldness the propert to programs timber harves stirvilse within the propert of programs timber harves stirvilse within the properties of the start of the

In summary, if Alternative A guidance for RMAs were substituted for Preferred Alternative guidance to allow a reduction in erreade allocated to RMAs, and if each guidance were also changes should result in an aggregate increase in the ASQ of an estimated 4.5 MSMF.

#### Minimum Harvest Ace

The onnegt of minimum harvest ege was adopted in planing for the 980's mm its east has been contained and the state 1990's. The only issue is the youngering at plan timber will be subjected to regeneration harvest. From our examination of the DRMY\_DIS, it appears that the MMA was set at 50 years. Boewers, a sensitivity analysis carried out shows that an increase in ABQ

Appendix II-8

Mr. Van Nanning, District Nanager Salem District Office 12/16/92 Page 7

restrictions imposed by the ESA. This would require a very careful balancing of obligations by the BLM.

## Opportunities to Increase Allowable Sale Quantity

construction to Intersea Allowable Bale Commutity Issaed good reserve of the information efforth in the DemyFills, we balieve strongly that several opportunities do wist for Indexts increases in the Allo to the point where the required allowable is the several several several several several several several sequences for inparts from the modelling harves be opported from these opportunities should serve to issues the apported from these opportunities should serve to inserse the separate several se

#### Riparian Management Areas (RMA)

Einstein Ranogement Arsen (1981) No sea su poprimily for change within the Preferred internative guidance for riparian area protection to provide for an internative guidance for riparian area protection to provide for the second second second second second second second to BMAs and Iberchy regregated from cercaps evaliable for protection increase in the screege allocated for sinils to propose tives meet the scinimal legit provide second se

Mr. Van Manning, District Manager Salen District Office Page 9

could be realized if the MEA constraint was released. This increase anounce to 14.9 MON. The data in the DAW/FIG does not indicate to what app the MEA would drop if unconstrained. The second second second second second that the MEA be constrained at 40 years. Other optime to constant that the MEA be constrained at 40 years. Other optime to constant that the MEA be constrained at 40 years.

We have recommanded to the State Director the the guidance for the preferred Alternative be analysed to book of the MEM shall be the ASO and help make a nose tididad upwards of 18.9 situation for tinher-depandent communities and industries in the Salam Distribute more Solarable.

#### Departure from the Nondeclining Harvest Level

Departure from the nondeclining hervert (seel is not something the public) and sanagers normally suise to be not here are times that now is the time to consider departure from the nondeclining hervest level for the General Forest Management Areas (JPMA) nodes to provide for a temporary increase in ASG during the ment

The association of covers had ovalidity for investory since the second s outlook for the future.

One way to help allowist the situation, and to ease the inpact of each a large reduction in AGO, is to adopt departure from the condeclining harver's level to partie a case decade increase that the situation of the situation of the situation of the harves level of the large situation of the situation of the project of the future. We add the situation of the situation of biology, for departure from the condeclining harves i we'lls, a

The allowable cut determination shall be "3. The allowable cut determination shares based on nondeclining harvest level over time. Departures from the nondeclining harvest level Nr. Van Manning, District Manager Salem District Office 12/16/92 Page 10

> may be parmitted in any direction. Any increase shall not exceed the long-term sustained yield capacity of the land; decreases ehall be economically and/or biologically justified and timed so as to minimize impacts on dependent industrise and communities." (Emphasis added.)

We do not know exactly how much the ANQ might be increased by the do not know exactly how much the ANQ might be increased by the second second second second second second second second life increases and second second second second second second Director Guidance required a semiltirity malysis for departure downer, this requires a two second second because to DMM/DI does not indicate that such an analysis we undertaken. It should be exclimated out on second because the Second Second Second Second Second Second Second Second to Second S

We have recommended to the State Director that the guidance for the Preferred Alternative be anended to require departure from the nondeclining harvest level in order to add to the ASQ and contribute to community stability.

#### Updating Timber Inventory

The DBDYIE indicates that the inventory of forest lands to the bary of the second second second second second second second distribution of much take. The second s

If its inpacts that is investory for ABO calculation purposes. If the represent ROE is inplanented on occurse, 1, 1993, as completed, we recommend that the extilug linewisery for the purpose of calculation the ABO for the proposed ROF be uptaced as during P, 1989, ALSO, we wish to pair out that for the social during P, 1989, ALSO, we using the pair of the social of the fact that little or no timer is likely to be offered for as during P, 1989, ALSO, we using the pair out that for the social during P, 1989, ALSO, we using the pair out that for the social during P, 1989, ALSO, we using the pair out that for the social during P, 1989, ALSO, we calculate the out that for the volume of timer that should have been offered for all in accessible depletion of timber volume and hence the net effect thould access depletion of the social during P, and the social during P, we can be applied to the alternative described in the BMCP/fin. Recease a higher exercise alternative associal here a pointive offect on the AGO, we have the provide the solution of the accession of the AGO we alternative described in the BMCP/fin. Recease a higher exercise alternative described in the BMCP/fin. Recease a higher exercise and the solution of the accession of the AGO we have the forther the train alternative described in the BMCP/fin. Recease a higher exercise alternative described in the BMCP/fin. Recease a higher exercise and the solution of the AGO we have the AGO we have the solution of the AGO we have the AGO we ha

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## COMMENTS SPECIFIC TO:

#### SALEM DISTRICT DRAFT RESOURCE MANAGEMENT PLAN

AND ENVIRONMENTAL IMPACT STATEMENT - AUGUST 1992\*

#### VOLUME I

#### Summary

The allowable sele vertey (140) is discussed under the topic the allowable sele vertey (140) is discussed under the topic forest land bass. The ADD is also reported similarly in Table 3-the selection with the selection of the topic separate by laco-understand the total ADD is also reported similarly in Table 3-the selection with the selection of the selection of the lacoselection of the selection of the selection of the selection (062) and the connectivity areas (0.1). In Addition, the selection of the section of yield (1787) be disployed in the table. See Table 1-the section of under selection of the selection of the selection section of yield (1787) be disployed in the table. See Table 1-for an empire of under shale.

We believe it is important to keep the ASQ segregated by land allocation because of the difference in assumptions used to compute the ASQ for such allocations. We also believe it is important to identify for each intensive management practice the ASQ contributed by such individual practices.

#### Chapter 1

No were dispondent that the Draft Resource Hanagement Plan and Environments, layed Statement (DBDVII) was publication of the statement of the statement (DBDVII) was publication of 1397 and the relationship of each fact to the forefact land policy and Ensequent Act of 199 (DFMA). The GCC Act is a using place of the statement of the statement of the statement of the western Greege for over 55 years. And as you know, the GCA Act was accorded a special exception by Sec. 70.10 first insoft as the accorded a special exception by Sec. 70.10 first insoft as the accorded a special exception by Sec. 70.10 first insoft as the accorded a special exception are seed. The first insoft act the local state of the Sec. 70.10 exception are seed. The planning occuments.

Mr. Van Manning, District Manager Salem District Office 12/16/92 Page 11

emphasize the importance of updating the timber inventory to October 1, 1993.

#### Opportunities Summarized

This Association is very concerned about the large drop in AGO proposed in the Preferred Alternative. We are not convinced that such a drestic reduction in AGO is absolutely necessary. Rather, we do believe that there are very to increase the AGO hove that there are very to increase the AGO hove that the account of the second second second second second laternative.

We balieve that modifications to the Derformed Alternative with regard to riperima reas protection, minimum barrest easy, deporture from the nondellning harvest level, and updaring the Linker investory to Ortober 1, 1003, could add at the least an tibe State Director to revise the policy to permit the Gauges we have recommended.

#### Consents on DRMP/EIS

We have attached hereto comments specific to the Salem District DRMP/RIS which are included in and make a part of this response by reference.

We are grateful for the opportunity to comment on these critically important issues. The future of much of western Oregon is dependent on the decisions which you and the other districts make relative to the management of these lands for the next decade.

Sincerely.

Rocky Ulcian/ wh Rocky NoVay

Attachment

e = 2

We ballew this is important because he Resource Meangement Pan (PMP), was depicid, vill income the have an unit of the RAM Hands in the Saiem District for the ment sea years. As new managers came upon the seace, their first action will be to because initiative for the seace that first action will be to because initiative the saiem bar of the search of the search of the purpose of these lands will vary likely he lost. This is of hering invested marry one billion follows of courty fund in the Gelfavior of the search of the search of the search of the search of the hering invested marry one billion follows of courty fund in the Gelfavior are index will way for a level of intensive observation. The search of the search of the search of the search of the observation of the search of the search of the search of the search of the observation.

We urge you to include a discussion of the O&C Act and its purpose in the plan. We suggest that you review some of the mailers published early on in this planning effort which discussed the G&C Act and the relationship to FLMMA. In our opinion, Chapter 1 seems to be the appropriate place to include such a discussion.

### Chapter 2

Tablidd in Clapter 3 is a origin smilled Cori of Massamann (app 2-41) with discussian is a view yenerative with court filework (app 2-41) with discussian is a view yenerative with the Present (app 2-41) with the same year with the Present allocative considered as non-tradicional laser management. The discussion observations are assessed with the Present allocative considered as non-tradicional laser management. The discussion observations are assessed with the Present allocative considered as non-tradicional laser management. The discussion observation of the same second second second second second consistent with the other alternatives. The discussion and that for the other alternatives. The discussion is the first decodes, would be about 2.4 times tradicional costs per unit compart.

Technically is a discussion of the cost of implementup the preferred literative scope at the point and the reitere is let to poster the question of increased costs and the budget needed to implement by Junk. We feel the determined discussion of costs, to be so such higher, is a serious overright in the DBM/TEL to be so such higher, is a serious overright in the DBM/TEL to be so such higher, is a serious overright in the DBM/TEL to be so such higher, is a serious overright in the DBM/TEL to be so such higher, is a serious overright in the DBM/TEL the chosen Proposed Artin together the plan.

Chapter 3

<sup>\*</sup>It is not our intent to make a detailed page by page review of tha antire Draft Resource Management Plan and Environmental Impact Statement. Rather, we limit our comments to several specific items/concerns that we feel need to be addressed.

## Appendix II

## Chanter 4

Lam.1
The optimizer is exercise estimated "Effects on Tables the section estimated "Effects on Tables" (a section of the section of

Resources.") In addition to a discussion of the effects of the various property and the status of the strength of the status of property of the status of the strength of the strength of property of the strength of the strength of the strength of the shade between the starting point (arres of discussion the strength of the status of the strength of the strength of the the shade between the starting point (arres of discussion the strength of the status of the strength of the strength of property of the strength of the strength of the strength of the shade between the strength of the strength of the strength of the shade between the strength of the strength of the strength of Act, see Exhibit 2 for an example of a table to array the data, the shade between the strength of the shade of the strength of production which will be forfsided in the shakers and protection of strength of the shakers and additional and protection of strength of the shakers and additional additional additional shade the shakers and the shakers and additional additi

Table 4-22 shows the AdO for the several alternatives for air different time periods. We direct your steaded to the or opening discussion in the furnary. We support that Table 4-21 be of Table 4-21 be that the the table 4-21 be the of Table 4-21 be the table 4-21 be the table 4-21 be discorregated to the intensive management provider. We also each alternative. The researce we say for the LTM is because

8 - 5

## Chapter 4

We support you include a sensitivity scalayisi in Appendix 4-to destruits for the Fredred Attendition (and/or Tropped Action) the ASG for a departure of ten percent above the nondella-ing harvest ices, provided that the resulting increase in ASG does a final tensor of the action of the action of the action of the destruint of the action of the action of the action of the first deced which is vitable buffer operations that the action of the off operation of the action of the action of the action of the action of the first deced which is vitable buffer operations.

consideration of a departure from the nondeclining horvest level is constrained by the long term sustained yield capacity of the Land.

### Chapter 5

No concept.

### Chancer 6

We note that you have dropped the tern functions user from the glosmary, even though the tern to included in the glosmary. You'll Analysis of the Menagement Situation published in January, 1991, we urge you to include the term in the glosmary for the Mesource relevance to the management of the OGC lands then does the tern "multiple user which has been included in the glosmary.

## WOLIDME IT - APPENDICES

Chapter 1

No coment

Chapter 2

angusta appear you include in appendix 7.4 a description of the product vector of context be Alcodale sale working for be-fredered alternetive (and/or Freposed Auton). We balave this is necessary in dorit to describ due that following component were a portion of the stand at harvest; (3) development of steaded with anitials enough layer; (3) maintanance of wines these appendix anitials enough layer; (3) maintanance of wines these appendix on longer rotations; and (3) expected timber yields from stands so managed.

Since the current timber volume for the Salem District is based on a 1987-1988 timber investory, we suggest you also include in Appendix 2-A a description of the provedures used to update the timber investory to the present time and a tabular display of the results of the update.

Chepter 3

No comment.

s - 6

ALI	lowable Sale	Quantity	Exhib:	it 1 and A	llocat	ion a	and P:	cactio	28.
					ALTI	ERNAT	IVE		
Land AL	Location/Pro	otice	NA	A	B	£	D	E	PAR
GFMA									
Bac	5e	MMCF							
PCT		MMCF MMBF							
Fer	rt.	MMCF							
Sta	and Con.	MMCF							
Ger	netics	MMCF NMBF							
OCEN		MMCF							
CA		MMCF MMBF							
TOTAL		MMCF							
LTSY		MNCF							

\*Preferred Alternative (and/or Proposed Action)

#### Exhibit 2

Effects on Timber Production Resulting From

## Enhancement of Other Uses

(Alternative & Compared to Proposed Action)

		As	<u>10</u>
	ACRES (SCFL) *	MMCE	MMBE
ternative B Beseline)	264,900	43.9	280.5

20 Less:

> Air Soils Water Resources Biological Diversity Vegetation Riparian Zonee Wildlife Nabitat Wildlife mapites. Fish Special Status Species Special Areas Cultural Resources Visual Resources Visual Resources Was Rivers Recreation Energy & Minerale Rural Interface Areas

Total Reduction

#### Proposed Action

\*Available for intensive management

BUM DESCHART MANAGEMENT DIAN

#### SALEM DISTRICT - TILLAMOOK COUNTY RESPONSE

Although there is a recognized need for forest land management on an ecosystem approach, the aggregate Allowable Sale Quota (ASQ) for all districts fails to zeet the requirements of the OSC Act of 1937.

There is a concern about the level of yield within Tillamook County to ensure the economic sustainability of the wood products industry in the immediate area.

 BLM should assume primacy in the management of its lands and not relinguish control to other agencies who manage for a single resource.

4. The management of OSC lands and Public Domain lands should be delineated separately, with each land category managed to recognize the differing statutory mandates.

5. We support the management technique programed for OGLAS and urge that it is implemented at the level property descendent monitoring is encouraged during implementation to allow the application of this technique within other OGLA's where appropriate. The use of this technique in such areas on a continuing basis would assist in achieving the goals of the OGC

The implementation of OGEA's should correspond to any reduction in the size of DCA's in the Final Spotted Owl Recovery Plan or in federally listed critical habitats.

7. In areas where BLM is emphasizing management for purposes other than timber production, BLM should consider land exchanges with State and private owners, and should work with all forset land owners to identify areas where resource values and economic could benefit from these trypes of land exchanges. cononice

8. If any anadromous fish becomes listed as a TAE species there dould be substantial negative economic impacts. Therefore if listing of coastal rune is to be avoided, fisheries enhancement measures should be awong the highest priorities, and federal land managers abould remain agreesive and committed to fisheries

5. Areas set aside under Riparian Management Areas (RMA's) should be limited to the minimum regulatory widths adjacent to rivers, lakes and streams. The proposed plan includes within the Land Use Allocation for RMA's large areas outside the minimums established by state and federal rules for riparian setbacks.

Although the plan does propose that actual RMA widths would be delineated by IDT's and be determined by on-the-ground condi-

15. HERU OF LONG MUNIC

> COMMISSIONERS K.N. Burdick J.A. Dove I.A. Lane



(503)842-3403 FAX 842+2723

# BOARD OF COMMISSIONERS Tillamook County Courthouse 201 Laurel Avenue, Tillamook, Oregon 97141

December 21, 1992

Van Manning, District Manager Bureau of Land Management Salem District Office 1717 Parry Rd. SE Salem, OR 97306

RE: 1610 (080.4)

Dear Mr. Manning:

Thank you for the opportunity to review and comment on the proposed District Resource Management Plan. Enclosed please find our comments and recommendations.

Please do not hesitate to contect us if you have any further questions

Sincerely,

Cheirperson

Ida A. Lane, Vice Chairperson

On Bu

#### AN FOULAL OPPORTUNITY EMPLOYER

tions this approach may is anoise to challenge on its pairs back may safeting in different of the thack which is supple-mental LES, because the Land One Allocations in the plan wars drivn by an LES, no there works, party in a WSP action or ender the same the same the same the same transmission delicested under a Land Une Allocation back on myrironsentil lower the same the same transmission of the same transmission without respensing the environmental review process for each lower and the same transmission of the same transmission without respensing the environmental review process for each lower and the same time transmission of the same transmission of the same transmission of the same transmission of the same lower the same time transmission of the same transmission of the same lower the same the same transmission of the same trans

If, on the other hand, Land Use Allocations for RNA's. If, on the other hand, Land Use Allocations for RNA's were have a start of the start of the start of the start have a start of the start of the start of the start of the ground regards start because of the Start of th

There is a great deal of confusion and inconsistency within the BWG on the incoment. Intert should be more clearly stated. The lead use incoment. Intert should be more clearly only the regulatory minimums or elisianted altogether in favor of an approach which views riparian management as an operation function of Plan implementation.

## LINN COUNTY BOARD OF COMMISSIONERS

635

BALPH E. WYATT

RICHARD STACH DAVE SCI

Linn County Counthouse P.O. Box 100, Abarry, Oregon 57 FAX: 525-

December 21 1992

Bureau of Land Management Salem District Office 1717 Fabry Road SE Salem, OR 97306

Dear Size

The Linn County Board of Commissioners appreciate the opportunity to respond to The Land County Floated to Commissions and approximate of optimizing the optimized of the o revitalization and outdoor recreation development in castern Linn County.

The planning issue that impacts the residents of Linn County the most seriously is The planning issue that impacts the residents of Linc County the most schools is the major neucrisis in Allowable Salo Country (ASO) to about 37% of the "no change attemnite". This reduction will result in significant reductions in logging and mill jobs as well as reduce the service provided by the County. Utimately, the future will decide and public service demand will increase due to the reduction in family wage jobs in Linn County.

We believe that there are good reasons to increase the ASQ above that projected in your Preferred Alternative (PA). Rather than elaborate in this letter, please refer to the response received from the Association of O & C contaits for commensus reflecting those of the Linn County Board of Commissioners.

The recreasing development in the Quarterfulle Creck and Green Feer Reserveir recess is very much supported. The future development of the BLM perinstal adjoinnt to the transverior is beinder to be a very important enhancement to the periodal neuroisand label on Quarterfull Creck label you do be project that the Bard word houldkantedly support. We would like to have more information on this as the plotting prima-ting pressues. Likeway, the doctation of the Automation and a structure of the support. We would like to heave more information on this as the plotting prima-ting pressues. Likeway, the doctation of the Automation and a structure of the automation of the support. Country Byway" is supported by this Board providing the other commercial uses are not limited by this designation.



BOARD OF COMMISSIONERS

Corvallis, CR 97330-4777 (503) 757-6800 FAX (503) 757-6893

December 21 1992

Dean Bibles, State Director Statute of Lond Management Saturate Control Management Saturate Control Management Processor

#### Dear Mr. Bibles:

Benton County offers the following comments on the <u>Western Oregon Draft Resource</u> <u>Management Plans</u>/Environmental Impact Statements (dated August 1992). Our ubstantive comments are directed at the <u>Salem Birds</u> Messer <u>Baragement Plans</u>-<u>Environmental Impact Statement</u>. The Salem BLM District indudes the Alsea Resour District of which a total of 57,000 acres are loased on Benton County.

DEC 2 3 2.3

#### Background

Benchon Comity supports the efforts of the Bureau of Land Management, through these than't Management Plans to provide a manifeste sparre all to reduce management for the standard standard standard standard standard standard standard through the standard standard standard standard standard standard standard base for the standard stand

Benton County Supports the Preferred Alternative listed in the Salem District RMP/EIS

The Saless Duritics Resource Advancement Plan, Environmental Impact Statements recovers from the former Oregon and Cultiformis Relined Lands, and active provers the maximum values on the provide lands. These same are difficult to Statement Plants of The Plants Plants and Plants and Cultiformis Relined Lands, and active provers the maximum values on the provide lands. These same are difficult to Statement Plants of the head to Juliane Complex public goals. These same same the continues for of difficult plants of the plants of the

Appendix II-12

## Bureau of Land Management

County residents

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The Board very much appreciates the efforts of BLM personnel in providing information and assistance to Lian County. We urge you to consider our views and look forward to an outcome that will provide stability and the best possible quality of life for Linn

Sincerely.

I INN COLINEY-BOARD OF COMMISSIONERS bolile E Fordick C MAN Richard Stach-Co issioner 21 -dt

By eliminating the current uncertainty about harvest levels on BLM lands in Benton County, this draft plan will have a positive impact on private sector forest based industri And as soon as possible dater formal adoption of the Management Plan for the Aleas Resource Area, it is vital to Benton County's economy that timber harvest contracts and other forest management activities consistent with the approved final plan be initiated.

Below, we have commented on specific issues within the <u>Salem District Resource</u> <u>Management Plan/EIS</u> that have direct implications, or of particular concern, to Benton County.

Cooperative BLM-BentonCounty Land Use Planning on Rural Interface Lands

<sup>21</sup> The Salam Dirth Response Share and the set of t

Benton County is currently revising its Forest Ordinances and zoning standards to be consistent with the new Coal 4 forest protection requirements of the Oregon Land Use Financing Troym, The Solare Datriel BLM (differ has provide 1 addied may that precisely density the localizes where significant portions of the Assa Resories Area hote private forest individuo ins Benton County, This informations with the an Important planning tool as Benton County questions in resource noting and addresses the designation of small Societ Resorted Land Zona (Line Society Handing Line) and the set adjustent planning tool as Benton County questions in resource notionaly subhall charge to be designated of small Societ Resource Land Zona (Line Society Handing Line) and the set adjustent of small Societ Resource Land Zona (Line Society Handing Line) and the set adjustent for small societ Resource Land Zona (Line Society Handing Line) and the set adjustent of small Societ Resource Land Zona (Line Society Handing Line) and the set adjustent for the set adjustent for the set adjustent the set adjustent for the set adjus

Consistency of the Salem District Draft RMP/EIS with the Benton County Comprehensive Plan

Based on review by the county's Development Department, the Salem District Plan's Preforred Alternative is consistent with the Natural Resource and Hazards Element (pp. 7-25) and Parks and Recreation Element (pp. 58-65) of the Benton County Comprehensive Plan.

Recreational Issues Addressed by the Salem District Draft Management Plan-Increase BLM Recreational facilities in Benton County

Biologue Anno 1988 Statistica and an annual annual

Benton County, in response to increased demand along the Alsea River, is establishing a new campground facility. There also may be new opportunities for shared management and maintename of recreasional facilities by Benton County, BLM, and the Alsea District of the United States Foress Service. Benton County staff are prepared to work together with Salem District BLM staff and staff representatives from the Status National Forest

In response to the ground, schema for perspectively approximation by both Willnessees Willier residents and provides, the test of the MTP fan should detain the property improved perspective schema for the MTP fan should detain the property includes and the schema for the schema for the schema for the schema for the property of the schema for the schem

4, Benton County supports the decision to not designate any Wild or Scenic Waterways in the Alsea Resource Area

Benton County, based on concerns expressed by private property owners lucated along the Alsea River, supports the Draft Plan's decision under the Preferred Alternative to not include any portion of the Alsea River or Lobster Creek for consideration as a federally designated Wild or Scenic River.

Designation of a Benton County Contact Person

Benton County puts a high priority on inter-agency coordination of land use planning and policy development activities. Please feel free to contact Roger Irvin, Director of Development, if you or your staff have any further questions regarding these issues.

Sincerely,

Kent Daniels

John Dilworth

Bob Saunders, BLM Salem District Office Gil Raiddell, Association of Oregon Counties Director, Benton County Public Works Department Director, Benton County Parks Department

Pam Folts

H104

Page 1

management and provide a comprehensive, long-term framework for restoring forest systems to levels that minic pre-settlement structure and function.

#### GENERAL COMMENTS

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Given the short supply of old-growth forest systems in vesters Oregon and the critical status of some wildlife species dependent on or plassy senseitud mission old growth, where pessible, for the life of the plant, the would allow grawter options for management of old growth dependent species in future planning efforts.

#### SPECIFIC CONSERVES

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## United States Department of the Interior

FISH AND WILDLIFE SERVICE Portland Field Station 2600 S.E. 98th Avenue, Suite 100 Portland, Oregon 97266

aber 21, 1992

Salen District Managar, Bureau of Land Management, Salen, OR. 70. ATTN: Van Hanning

FROM ACL.

y Field Supervisor, Portland Field Office, Portland, CR. Ath Review of Draft Environmental Impact Statement (DEIS) and proposed Resource Nanagament Plan (RNP) for the Salem District. SUBJECT:

The U. S. Fish and Wildlife Service (Service) offers the following comments for your consideration in preparing the final RMP/HIS for the Salem Cistrict.

We consend the Balow tarff for organizing a remplow error of information and formulating as competional derivation downset. Interprising esological, encounty, and social considerations for the management of 329,000 errors of forestind, information and and the for theory production, present a chilinguing teak. Linderstein and concerns as well as a consistant to restore holdogical (iversity of chiefforts) frost characterization through an angement and habitat protactic

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Parameters for determining the "benchmark" characteristics of old-growth atructure and function need to be established prior to the initiation of trial harveslips programs in the 53,000 acres of "neo-distreed OdSHA (ODSH-2, OdSH-3). The Berrier recommands districts immidiate represention harvest mono-distreed OdSHA, i.e. the Matucco OdSH, unit pear-estimate originate harve

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The Rxy/HIS describes the importance and values of riparian zones in the context of permunial stream systems, but only refers to first an second of headwater streams in the context of impacts incurred through thrake harves activities (page 3-7). The HD needs to explain how headwater stream

conditions affect downstream conditions and overall system integrity. McComb and Hapar (1992) and Borchler and McAllister (1992) indicate that 20 species of ripariam obligate vertebrates means to be essitive to timber harvest in or objecent or inparian areas in Ocegon. Nice of these are sesociated with headwater streams.

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Some the value of stress systems to fink and willife populations of the support of the stress systems of the stress system of the stress system of the stress system of the stress systems of the stress based are stressen incomposition of the regionic management portions of the stress systems of the stress systems of the stress historicity of the stress system of the stress system of the difference of the stress systems of the stress system of the support of the stress systems of the stress system of the stress protocil of the stress systems is a stress system of the stress system of the stress systems of the stress system of the stress system of the stress systems is a stress system of the stress system of the stress system of the stress systems is a stress system is stress system of the stress system of the stress systems is a stress system is stress system is a stress system is stress system of the stress system of the

#### TERRATENED AND ENDANGERED SPECIES.

#### Concernal Commentary

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The federal ctatus of saveral species are incorrectly noted in the Draft EIS. The meeded changes are noted under Specific Comments. The final document number to reflect the recommanded corrections and resvaluate effects of the alternatives for each species with an incorrect fodecal status.

The document states the Recovery Flans for the baid acqle and preogram falcon are baing inplemented on EX lands. Development of alter-perific samement useful in the anagement of preopring falcons. The biological assessment should clarity whether site-perific anagement plans will be developed for these species. Decument anagement on EX lands alone may not be evidiant to

special status species. In addition, species such as <u>Lupinus sulphureus</u> var. <u>Minudii</u> should be included.

Page 2-44. Animale. The Service recommends that a statement be made regarding the current level of monitoring and inventory for each species in this

And the Automation Alson. As recovery of this species producess, hence is provided the state of the statistical to assess that the part provided the state of the statistical to assess that the part has a need for precision investories of potential healthst. The Burgers should cooperate and coordinate with the oregon begartman of film and Willife on conducting precision investories and consistency of productivity as easiening

This solid, sendid sector goods ... The mathed purplet we listed as threakened so chocken 1, 1920. The Oregon chub was propored as acchargered on forwames 19, 1950. Table 3-11 should reflect the correct strutum noted down for or policiend of the full downsom, the service strutum noted down for a set of the service structure structure set of the petitional species, i.e. wentern pord turtin, spotted from, sorthern red looped from, and buil trunt, for their current status. The marbled surrelat was listed as

Page 3-47, Said eagle. The presence of communal night roosts on SIN lands should be discussed. See communic for Page 2-10.

<u>Ress 4-17. Baid angle.</u> This methics are persistent the meniability of propertial habits. So that the second s

<u>horomoliv 2-32</u>, <u>Lessable Minoral Resources</u>, <u>S11</u> and <u>Sas</u>. The document states that the Minaral Lessing hot of 1920 provides that all publicly owned oil and to close the area. Please explain what is a specific land order, whether there is nore than new hind, or a brief description of the process lawolved in initiating one.

<u>Mirbled Murrelet</u>. The sections covering marbled murrelets need to be expanded and corrected to address the nurrelet's Federal "threatened" atoms. More research need to be undertaken to detrmine what halted characterizitos are importent for murrelets. Current definitions are do include acceptable ranges of mutrelets habitst. The current definition is too narrow and *eimplistic* 

Page 3-47. Marbled Murrelet. A description of habitat should be presented.

<u>Row 4-10, Machied Murralet</u>. The description of murrelet habitat is unclear, confusing, and incomplete. The '120 years and older with light to radorate overtory' description locks auxificient specificity to define suitable habitat requirements. Given the current population status and swellability of habitat, it is empoted that implementation of any of the proposed

Appendix II-14

reduce threats to Federally listed species such as the baid sagls and paragrins falcon, the Service snooursges the development of site-speci management plans in coordination and cooperation with adjacent private indocumers and the Occoor Department of Jish and Wildlifs wherever practicable

The force that had apply may be septimized without the force of y main the force of the set of the set of the set of the set of the program factors any be septimized without and off-read within the set of the program factors any be septimized without and off-read within the set of the recention preserve and/or devices have the presential to setwere y iffer the set of the

Notioring of the species state on EX lands will be inportant to provide analy unring of deverse shape. Here specificity is meeded in orilinto biological areasement should indicate how liters, propender, and condidate species state will be sonitored and funded, the frequency of nonlocing, name provide the state of the species of the sp

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apprint of community and the second secon de shat the

Builds J. Specific lists insels making the definition of "processed" and specific sectors and the specific sectors of the spec

<u>Proce 3-42, Plants</u>. The Bureau should expand on their list of special status species. All Federal candidate Category 1 species should be considered

alternatives would negatively impact the murrelet. In the long term, only limited increases in murrelet habitat are expected. This is likely not compatible with the recovery goals for this species.

Oregon thub. The SLM needs to assess the effects of its proposed management allocations on watershed and stream conditions within the chub's range and propose resolution newarms to offset any negative inpacts.

<u>Sensitive Soulas</u>. The NOP needs to clearly define the scope and criteris used for site-specific protection of spoins that my be threatened as allocation stoppedies. Increased funding allocations to export inventory work, field assessments of species habitat needs, and sonitoring programs be required to instruct the suspense and unique still contribute to future listing of any sensitive species.

Spotted Owls

#### General Compenter

Several particles of the draft hencies Measpenest Fiss yes not consistent with the draft hencomy Fiss for the Marthers spaties dott and raise potentially enclose concerns for the sarvival and convery of the spatied out. Three include management activities within the large mass managed for Sidner Freest control of the sarvival and the large states. These inservities control of the spaties of the large states the size states inservities discussed separately, though they contribute to the overall inpacts of the MAD

is only a significant one proposed is deformed access that spone insensitions in the significant of the significant of the significant of the significant inside an appendix activities within older second growth that correctly met at least dispersion activities within older second growth that correctly met at least dispersion of the large blacks. The word sites that same active the within the size of the size blacks. The word sites that same size the size of the size blacks. The source is a size of size of the size of the size blacks. The source is a size of size of the size of the size of the size black of the size of size of the size of size of the size of size of the size of size of the size of size of the size of size of the size of size of the s

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The relatively short rotation and general management prescription for the Bestuces River COSA appears inconsistent with the maintenance of suitable system dou habits. Given the young; intenanvely-managed softients of the current forest in this area, intermediate treatment to accelerate the development of stand diversity may be justified. However, given the oritic ever, given the oritical location of this block at the extreme northern and of Federal ownership in the oragen Coart Rappes, development and stationance of a viable spotted oul populations in the northern creation Coart Rappes. Therefore, long term management should be altered to maintain suitable spotted oul habitst at the mainum level possible within the Newtone River OZX.

Long scale always will be determined as a scale operation of the ferrer scaling of the basis within the Scale Scale basis of the scale scale the device operation of forests following constraints events, it is difficult to spend devices of scales i constraints of the scale scale scale scale scale is an event of scale i constraints of the scale scale scale scale scale is an event basis of the scale scale scale scale scale scale scale scale is a scale is a scale is a scale is a scale scale

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The MCD Model doubles as essenses of the visibility of the spectra distinct the preferred visibility of the spectra distinct of the visibility of the spectra distinct of the visibility of the spectra distinct of the visibility of visibility of the visibility of visibi

The monitoring exction of this dorument should be expanded and increased to include specific proposals with thresholds, trigger points, and ocurses of sction. With this RMP, the ELM is attempting to manage forests is a manner different from all previous efforts. No a result, management prescriptions

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<u>has blue solute</u> a parameta, " the descence indicate that the constrainty durate an inductor is provide for timber beneric vilue the constant of requirements for maintains of the reserve constitution of the solution of the solution of the solution of the following of the solution of the solution of the solution in term "excital labelat" should be defined. The following disease interment/qualitation should be also blue to blue the solution of the summers of the solution of the solutions the term of the solution be allowed to improve in condition, not be maintained at correct lawsia. For former lawsia are solved into the solutions in the correct lawsia.

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<u>Prot d-12. Column 1. Paragraph 4.</u> Bather than assume that density management in the perferred alternative would not negatively affect attainment or resention of existelo habitat coolision. Ar Rev Should contains an assessment of the rick of negatively affecting multiment (Periority Interseptimental neutro of the density management prediction).

<u>Pipe 4-62. Column 1. Paragraph 4.</u> This soction should provide an assessment of the effects of the preferred alternative on spotted owle in the Oregon Coast Panges provincs, rather than simply highlight the importance of BLM lands to opotted owls in this province.

## Comment Letters from Federal, State, and Local Governments

Letters IUMI PEOPERIA State, AIDA LOCAL GOVERNMENTS Dialed memory hospitality and provide the rest any average metatic of relative structures of the state of the states of the states of the preservice of the states of the states of the states of the states is the states of the state of the states of the states of the states states of the states of the states of the states of the states is the states of the state of the states of the states of the states states of the state of the states of the states of the states states of the states of the states of the states of the states provide states of the states of the states of the states of the provide states of the states of the states of the states of the provide states of the states of the states of the states of the provide states of the provide states of the states of the

The final rule designating critical habitat for the morthern spotted owl (final rule) was published on January 15, 1992. The RMP should contain a discussion and evaluation of the impacts of the MMP on designated spotted cwl critical habitat.

#### Specific Conserts

Page with abuse 1, indicating, 0 4 6 denominate shall got be enclosed from exclusions of radia to be managed for rights and management propose metative to limit specific. Note a limiting appear to solidit with their subjectives in furthermost of the propose of this but to practice on proposed to be a subjective to the propose of this but to practice of their subjectives in the thermost of the propose of this but to practice of the proposed of the proposed of this but to practice of proposed to be a subjective to the proposed of this but to practice proposed of the proposed of the proposed of this but to practice of the proposed and proceedeness includes to a subject to the proposed of the proposed instantamester. (I do relative to prop 2004)

<u>Page 2-34.</u> Column 1. Personant 5. The RMP should describe how the short term management objective of providing for 7/8 epecies dependent on or ausoclased with old-growth forces to converteme will be net on the OGE-1 areas, as stated.

2ngm 2-14. Column 2. Paragraph 2. The restriction of density management to stands not currently multiple for spotted owls is an excellent safeguard for short term management.

The JALA Column 1. Hencema (J). We beach of the Besteven Nices of Boundaries with Sol is the dear Monory Plan. The property flan. This may within the GRA sphere incompletent with the dear H servery flan. This may sphere loci in the beact theory accounting the development of stand discretify in this hearing management, the IB year harvies column and discretify in this hearing management, the IB year harvies column and discretify in this hearing management, the IB year harvies column discretify in this hearing management, the IB year harvies column discretify in the stars. This may not the function of the barrier instance of populations in this prelim of the provines. The area fooding spectra of the spectrum GOX cone stands the indication condition.

<u>Page 2-35. Column 1. Paragraph 3.</u> The presence and prescriptions for the OGEN-3 in the Creaturee Creat area should provide improved dispersal potential in this area.

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<u>Page 4-42.</u> Column 2. Paragraph 1. This paragraph and the following discussion mention the need for successful dispersal between these large habitat blocks. As discussed in the general comments, the RMP should indicate how this critical dispersal will be maintained.

Rem<u>sich</u> Column 1. zernernet 1.8.7. Vory litts information is geroriad to allow evaluation of the ispace of the preference allocative on disparal condition. The RMS should provide a complete analysis of the inpact of the preferred allocative, compared to alternative 2.0. of disparal condition and 50-11-60. This should include whert texm, low point, and long tern impact anylyses, as well as impact on a provincial basis.

<u>Reps 4-46. Column 2. Zaragraph 4.</u> Provide rationale or documentation for the statement that isolation 1 and thought likely to be a factor under the preferred alternative. Currently there is no grounds or basis provided for this statement. Given the previous discussion of disperal condition and the inclinates throught. In the area of concern, isolation appeared to be a

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Many of the concerns for the suitability of habitat under Alternative C, such as the uncertainty associated with the human management and the uncertainty of the success of proposed situational systems in recreating suitable habitat also hold for the Preformed Alternative. This should be evaluated relative to the tick of failure of the NMP.

Accordix 3-6. Reve 2-25. Land Concerning Melantment Criteria. The inclusion of endangered or threatened species habitat in the criteria for evaluating land equilation or disposal is consistent with section 7(a)(1) of the Endangered Species Act, but appears conswhat in conflict with previous statements relative to Occ lands and land tenure.

<u>Assumption for postantial and the second postantial is non-amplitude properts for postantial is the second postantial is non-adopted postantial and additional and additional and additional addit</u>

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SUMMARY COMMENTS

## Appendix II

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Fish and Wildlife service staff offer these comments is a spirit of partnership with the Salem strainity to become a landing force in the restoration of costs comprises in Mestern Dropen. We note spin with to command the Salem District for recognizing the meed to manage their lands for bioliversity and scoreystem visibility.

#### REFERENCES CITED:

- Souchier, J.L. and D.C. Kolliteter. 1992. "Riperian Classification and Protection Goals to Maintain Fish and Wildlife Sopulations on State and Private Porcet Lands In Drogot." Dregon Department of Fish and Wildlife. Rabitet Conservation Division. Nortland, Gregon 30 pp.
- Srown, F.R. (ed.) 1985. "Management of Wildlife and Fish Habitats in Poreste of Mestern Dregon and Mashington. U.S. Department of Agriculture, Forest Service. Publication No. R6-FEM2-192-1985. Pacific Northwest Region.
- Franklin, J.F. et al. 1951. "Reological Characteristics of Did-growth Douglas-fir Forests. USDA- Forest Servee. GTR-FWH-115. 48 pp.

12

2 process that provide adequate safeguards to assure that site-specific projects implementing the RMP will not adversely impact currently degraded watersheds. More specificatly, our environments objections include the following:

- The high potentiel for further water quelity impacts and baneficial use degradation in several streams and rivers that have serious nonpoint source pollution problems and/or ere water quality limited;
- The lack of riparian zone protection for first and second order streams which may contribute to violations of water quality standards (WQS) and impacts to beneficial uses;
- The potential for adverse impacts to fisheries related to the prediction that 18 of the 27 analytical watersheds in the planning area will decrease in condition under the PA;
- The direct health and safety impects of prescribed burning in rural interface areas and the indirect air quality impacts of the District firewood program;
- The use of an arbitrary ten year timeframe to distinguish between short-term and long-term resource impacts which could result in inaccurete impact assessments for biological populations with implications for adverse population or community-level effects;
- The potential for impacts to threatened species listed under the Endangered Species Act, including tha northern spotted owi and the marbided murrelet; and
- The lack of RMP direction regarding future environmental analysis for site-specific project proposals.

The following additional information and clarification is requested:

- Preparetion of sufficiently-developed management guidance to facilitate water quality analysis and to ensure that the existing water quality limited streams and rivers and other weters do not sustain violetons of water quality standards and do not experience additional degradation of beneficial uses:
- Establishment of riparian zone protection for first and second order streams;



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 10 1200 Sturb Voncus Seattle, Washington 86101 DEC 1 8 1992

ARTIN DF: WD-126

Van Manning, District Manager Selem District Bureau of Land Management 1717 Fabry Road S.E. Salem, Oregon 97306

## Dear Mr. Manning

The Environmental Protocols Agency (EPA) lass reviewed the dark Salam District Resource Managemant Plan (RUR) and Brivitonmental Impact Statement (EIS), Burnau of Land Managemant Plan (RUR) and Brivitonmental Impact Statement Section 30 of the Clean Ar Act, which directs (EPA to review and command Policy) Act and Section 30 of the Clean Ar Act, which directs (EPA to review and command and Managemant Plans). The State Section 30 of the Clean Art Act Section 30 of the Clean Ar Act, which directs (EPA to review and command and Managemant Plans). The Section 30 of the Clean Art Act Director Guidance on July 15, 1888, and on the drift Protocype Monitoring Plan on November 15, 1991.

The draft RMP/IBS presents seven alternatives thet could direct IBJA lind meragement could use in the Diarris SIGO covers of Indenal Inter end 27 XFO across the seven of th

It is clear that the development of this data REV/PIGS required a significant level of off tor by BLA site. They should be commanded for addressing such a broad nange of issues through a variety of menagement objectives for the many resources found on BLA-stantistication lists. But is present to see docusione regarding biodivarity and global dimited damge in the data REV/PIGS. These are difficult issues to address in a programmatic document and GLA should be commanded for nonsessed emphasis on protective land use allocations such as special management area.

However, EPA has several concerns with other aspects of the proposed action. EPA is rating this draft EIS EO-2 (Enrivonmental Objections-insufficient information). Our environmental objections are based on the lack of sufficient development of Best Management Practices, a monitoring pien, end a cumulative vetershed effects enalysis

Orient on Recycles Page

3

- Clarification of the need for and criteria for use of prescribed burning in rural interface areas and an expanded discussion of mitigation measures related to the District frewood program;
  - Documentation of consultation ectivities under Section 7 of the Endengered Species Act; and
  - Clarification and direction for future project anvironmental analyses to be tiered to the RMP.

We appreciate the opportunity to review and provide comments on this draft NMP/EIS. An explanation of the EPA rating system for draft EISs is endoed for your reference. This trafts and a summary of these comments will be published in the <u>Fadoral Register</u>. If you have any questions about our review comments please contacts Sally forcup in our Environmental Review accions at (203) 563-4012.

Sincerely.

Charles -Cha s E. Findley Director, Water Division

Enclosures: Draft EIS Rating System Review Comments Impect Definitions Riparian Policy

cc: D. Dean Bibles, BLM State Director Bob Saunders, RMP/EIS Team Leader

#### U.S. Environmental Protection Agency (EPA) Review Comments

Selem District, Bureeu of Land Management (BLM) Resource Management Plan (RMP) end

Draft Environmental Impact Statement (FIS)

Oregon

December, 1992

## INTRODUCTION

As noted in our treatmittel letter we have several concerns should be proposed action. We have identified several lasses in the drift RMP/ES that need detification, revision or an expended discussion. We offer these comments is an effort to stampthen the RMP/ES and provide the public which descriptions of the public involvement with site-specific projects. A catalaid discussion of our concern end recommendations for the first RMP/ES is presented on the following pages.

### WATER QUALITY

#### Water Quality Standards and Beneficial Uses

The Salem district has a large number of weterbodies that are water quality limited end/or have serious to moderate nonpoint source pollution (NPS) problems in four dreinege basins (page 3-12). Of particular concern to EPA are:

- Pedee, Rowell-Gold, end Ousrtzville Creeks which have high wetershed condition index (WCI) ratings that indicate a high level of disturbance and
- Tualatin River, Yamhill River (including the major North and South forks), Pudding River, Panther Creek, and Rickreall Creek which are water quelty limited.

EPA is pleased that the draft RMP/IEIs has used the 1988 Oregon Statewide Assessment of Nonpcint Sources of Visior Pollution (NPS Assessment Report) to idently in waterbodies with resolution SMP pollution problems and the Oregon's 1992 Weber Ouality Status Assessment Report (305(b) Report) to identify waterbodies that en listed as "water quality limited" or lack beneficial use support in eness where timited

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(nutrients - solis). DEQ has a consistent monitoring program in place on the Tualatin River,

Because of the Water Quality Limited status of the Tualistic Basis any struter heavest plans need to be accomposited by a detailed plant for comorting NPS pollution and datals on how the cumulative impacts of timber heavest mey influence the Tualein where quality where other hown impacts are taken into accounted. The TUBL accounter water to be accounted with the TUBL account of plantane timber heavest.

## Pudding River

The Pudding River is a water quality intriad river and the TMDL is nearly completed. The major assessment permitters (criteria) are disclosed organi saturation, nutrients, feata oatomm and enterococci. The Pudding River has high nutrient concentrations that exceed attradicts during the summer months. Other problems include sturbidly, aedimentation, and erosion. Imparted beneficial uses are wimmwater and collowater fish, other equation flag.

The probable sources for NPS impacts in the watershed include: landstides, surface ension, riparian vegetation and barrk disturbance, and elimination of vegetative core: (hermai protection). The current land use in the watershed includes irrigited and non-irrigited opriculture, animal waste management, nursery crops, livetack grazing, forestry, mining and urban development.

The water quality institud status of the niver results from instancies applicature and correctly uses. Any proposed inthree hineware in the wateriesder may result is increased disgradiation of water quality. Logging activities need to be accompanied by a detailed pin for controlling MSP polition. Namoperin source absolations (basia discolations – Livá) need to be incorporated into the TMDL to account for existing NPSs and nuture planned timber harvests.

#### Panther Creek and Yamhil River

Penther Creek a titubury to the Aroth Yameli River (poth in the Yamili divinge basilin year an overall rilling or sover (by observation) for water quality, do anythe harbor. The major theose sites of the source of the source of the acute harbor. The major theose sites are donaised water supply inrigution water, conditions. The impact benefatig uses are donaised water supply inrigution water, conduction faith and other aquatic flix, withflix, water recreation and satertitics. The source of the source o

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harvest and road construction is proposed in the dreft RMP/EIS. A summary of our concerns about these waterbodies follows.

#### Pedee Creek

The overall water quality rating and attents quality conclutons effecting equation tables for phede oches as severe (with usin). The ming's based on low disached other sequences and the several section of the several section of the other sequences and the several section of the problem is water withdrawit. The MUN Clor Prodee oches compares water with the Oregorie's assegament. However, both effect and indred logging impacts in this water withdrawit. The MUN Clor Prodee oches observations water based on the the problem is the several section of the several section of the several section of the several of quality.

### Quartzville Creek

Outcrists Creek has ever quality refind, aquite habits rating, and attempts of his mixing of moriant (who day). These ratings are based to nutriest tippo and other strange of moriant (who day). These ratings are based to outcrist tippo and other quality days and the strange of the strange of the strange of the water strange to the strange of the strange of the strange of the water strange of the strange of strange of

#### Rowell-Gold Creek

This creek has been identified as being impaired based on recent conversations with the Department of Environmentel Quality (DEO) nonpoint staff. No information is available in the 1988 NPS Assessment Report for this stream.

#### Tualatin River

The Tualatin New is a water quality limited stream with a completed total maximum only old (NDL). The TML is in pactor of probations. The estessment perimeters that we exceeded include: disorded object sources, disorded object concentration, nurves, algae, lead outloam and environces. A transmission exceeded standards over nuch of the Tualatin Rever (10% of the time. Other pollution pollowing includes and nurlicipal water supplies. The sources of the periothems actived sources much and nurves (maximized active transmission) pollowing sources and nurves of the sources of the pollowing sources and nurves of the sources of the pollowing sources and nurves of the sources of the pollowing sources and the sources of pollowing sources and the pollowing sources and the sources of pollowing sources and pollowing sources and the pollowing sources and the pollowing sources and the pollowing sources and pollowing sources and the pollowing sources and pollowing sources

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The Yambiii Rhwe Is used quality limited with a completed TMOL. The parameters that were elevated and results in the TMOL Folder, disslowed oxygen disslowed oxygen condentation, Ph, nuterins (ets. phosphorula, displa, saturation, disslowed oxygen condentation, Ph, nuterins (ets. phosphorula, displa, displayed and the saturation of the saturation of the saturation of the saturation of the problems resulting in a mening of savers with data. The nonpoint problems include doub pastidole, implement is escentianous, advantation, related for a saturation of the saturation of the saturation of the saturation of the non-implement assessments and use patterns include low grant and relative and characteristic of the saturation of the non-implement discussion and use patterns include in problems and includes agriculture, annual management, numery (normal), and general advantation of the saturation of the saturation of the saturation of advantation of the saturation of the saturation of the saturation of allow rede as severe for MS photomes and ere considered to a were quality finded.

Without careful management of timber harvest in the watershed the Yamhill River could continue to show degredation in water quality. The TMDL has a strong emphasis on countrolling point source pollution through VLA. The addition of inputs from logging and essociated precises could result in increases in NPS pollution. Sedmentation is already a problem in the watershed.

#### **Bickreall Creak**

Richarel Creek to considered water quality initiad by DED. The NPS entrops are notemate by classration. The initiality are based on tutility, but deaboding constrained and the second second second second second second constrained and the second second second second second second constrained second second second second second second second induce, water without second second second second second second label, water without second second second second second second uses within the witheraked are applicature, range, and usean rundit. Though foratty management protections to evolve the second s

#### BLM Activities in Water Quality Limited Watersheds

Timber harvest end road construction in these watersholds may be implemented without exceeding the water quality stendards (NOS) or causing beneficial use impairment. However, the primary methods for preventing standards impairment are , not developed sufficiently in the draft RMP/EIS.

Water quality limited streams would not be edversely affected by BLM ...water quality imited streams would not be edversely anocied by BLN management activities under any of the alternatives. Changas in wate from BLM management activities would not exceed state water quality orterie (page 4-10).

However, of the 27 analytical watersheds in the planning area, 18 are projected to decline in overall watershed condition (page 4-11) with the Preferred Alternative curve are in created weiterstream containing (page 4-11) with the Preterred Alternative (PA). Further, the future WCI shows that two water quality limited streams, Rickreall and Pedde Creeks, would be adversely effected by the PA. Out of the 18 watersheds showing a dealine in untershed condition six will dealine to a significant deares. The showing a decine in watershed conduct, six will decine to a significant degree. The six watersheds and the percent of the watershed administered by BLM include: Rickreell Creek - 32.6 percent, Table Rock Fork - 60.3 percent, Clear Creek (KiChia) - 47.3 percent, Kichia Forchail - 30.3 percent. North Fork Silatz - 40.1 percent, and Mil Creek - 5.8 percent. This information appears to contradict the quote from above. The final RMP/EIS needs to explain how it concludes that water quality standards WQS) would not be exceeded and water guality limited streams would not be degraded further. Our concern is increased by the fact that BLM administers a significant percentage of five out of the six watersheds that will decline to a significant dagree

5

The basis for our environmental objections is that timber harvest and road construction may occur without an adequate ournulative watershed effects (CWE) analysis of site-specific projects and that timber harvest deterrate may not occur in already deprated watersheds in response to these analyses. EPA is also concerned. that water quality monitoring plans are not sufficiently dayeloged to verify that Best Management Prectices (BMP) are effectively preventing edverse water quelty impacts.

A CWE analysis process should be developed for inclusion in the final BMP/EIS (see following paragrephs). Since implementation of BMPs represents the major form of mitigation the final BMP/Bis needs to discuss how effective the BMPs have been in the past. Judicial reviews of the National Environmental Policy Act (NEPA) cases have supported not only the need for identifying mitigation measures, but for discussing mitigation measure effectiveness as well

#### Federal Consistency, Clean Water Act. Section 319

The federal consistency provisions of Section 319 provide an opportunity for state and federal agencies to coordinate their activities and cooperate in achieving state water quality goals

The draft RMP/FIS appropriately utilizes the NPS Assessment Report to identify existing water quality conditions on the Salem District and compare them to those

should also be described. If not, a schedule for completing euch validation should be included

- A BMP outlining specific parameters epplicable to project-specific CWE analysis, such as water quality monitoring results, equivalent clearcut area, road density, or beneficial use impairment identified in the NPS Assessment Report and the 305(b) Report.
- A BMP outlining a more conservative ste-specific project planning approach when CWE analysis tools are not available, are under development, or have not been veildeted. When adequate tools and monitoring data are not evaluable to predict future water quality impacts, timber harvest and road construction activities should be reduced to provide for en extra margin of safety and water quality protection. A description of how CWE activities will be coordinated emong adjacent
- landowners through such things as ennual meetings to coordinate road construction and timber harvest plans and/or cooperative agreements and land management objectives repercing desired future conditions for water quelity, riparian zone protection, and ectivity deferrals
- A BMP with a commitment to activity deferrals when the CWE analyses identify probable beneficial use impairment.

#### Water Quality Monitoring Plan

#### Concerns

A monitoring plan with water quality elements was included in the draft RMP/EIS. A detailed monitoring plan is critical for successful long-term implementation of RMPs and protection of water quality and beneficial uses. While BMPs are intended to protect water quality, they must be monitored to verify their effontiveness

The monitoring plan should be complete and well organized with carefully chosen sampling parameters and sampling sites. Coordination with other local, state, and federal agencies is important to avoid duplication and to foster efficient use of limited resources. Sampling priorities should be consistent with problem areas identified in the NPS Assessment and 305(b) Reports and other date.

An important component of BMP implementation is the commitment to pond ict Increasing demands for resources can result in decreased mor monitoring efforts. EPA believes that timber sale volumes and associated programs should be reduced proportionately if annuel funding is not sufficient to support monitoring. EPA would like to see criteria outlined in the final RMP/EIS that clarify how this commitment will be met during RMP implementation.

Additional Information

ated by the WCI, a BLM cumulative effects analysis. We support this use of the estimated by the Wcs, a bLw oundaries an apple. We support us size of in NPS Assessment Report. However, additional uses of the NPS Assessment Report should be developed for the final RMP/EIS. The NPS Assessment Report, in conjunction with the 305(b) Report and offer data, should be used in the final BMP/EIS to establish:

- Desired future condition on a stream-by-stream basis from which RMP accomplishments can be measured. 0
- Criteria and minifiae for numilative effects unside as
- Priorities for water quality monitoring programs Criteria and priorities for watershed activity level plans
- Priorities for watershed rehabilitation programs
- Best management practices and thresholds and decision criteria for watersheri harvest deferrais

#### Watershed Cumulative Effects

#### **BMP** Implementation

The draft RMP/EIS discusses potential cumulative water quelity impacts. However, EPA is concerned that the draft RMP/EIS does not specifically describe the nature of future CWE analysis to be conducted for site-specific projects during RMP implementation. Until the WCI is validated and peer reviewed, it cannot be used with confidence for site-specific projects. Road construction and timber harvest may need to be deferred pending the outcome of cumulative watershed effects analyses for site-specific orciects. Any CWE analysis used for site specific projects should be scrutinized to the same extent as the WCI and also be subject to the scientific process. To be meaningful, CWE analyses also need to be considered and watershed protection measures implemented by all major land owners in a watershed

The Eugene District draft RMP/EIS contains a BMP directing that where " cumulative effects analysis predicts degradation beyond District thresholds, defer all timber sale units in any watershed until substantial recovery has taken place." (Appendix 2-2). EPA supports this direction and recommends it for inclusion in the frail RMP/EIS for the Salem District. This draft RMP/EIS states that activities may be. deferred (name 2-7) but a deferral commitment was not found in the BMP accendir.

## Additional Information

The final BMP/FIS should include the following:

A description of the CWE analysis thet will be used for future site-specific projects during RMP implementation. The extent of analysis validation

#### Additional Information

The final RMP/FIS monitoring pien should include written standards for sampling design, monitoring parameters, analyticel techniques, statistical methods, reporting units, location of sampling, indicator species, budget, and procedures for using deta or results in plan implementation; and availability of results to interested and affected groups. The monitoring plan should also have a clear feedback mechanism which enables the use of monitoring results to adjust standards and guidelines, BMPs, standard operating procedures, monitoring intensity, and project Implementation (including timber sale administration) at first detection of adverse effects, Provision of such an adjustment process will ensure that BMPs and management stretegies will improve in the future and that unforeseen adverse effects are identified and minimized. Lastly, the monitoring plan should include validation of the WCI and any other cumulative effects model or index intended for predicting the water quelity effects of site-specific projects

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Heinful resources for the development of water quality and biological monitoring plans are:

Monitoring Guidelines to Evaluate Effects of Forestry Activities on Streams in the Pacific Northwest and Aleska, EPA/910/9-91-001, May 1991

ant Protocols For Use in Streams and Rivers, EPA/444/4-89-001, May 1969

The monitoring plan may also be improved with the addition of

- Identification of a measurable desired future condition (DFC) for each stream or subwatershed which adequately protects the beneficial uses. The DFC can be expressed in terms that best describe the beneficial uses. (e.g. percent fish habitat capability). DFCs are needed to ensure that future water quality eccomplishments are measurable. On-site inspection to monitor BMP implementation by ecoropriate
- specialists as well as timber sale contract administration. Site review may be randomized (e.g., random number table). Ribarian Management Area (RMA) monitoring to essess long-term large
- organic debris contribution to streem systems in such terms as quart size, species, and delivery rete.
- A fisheries monitoring protocol based on identification of sensitive populations and habitat types and prioritized/stratified by stressors and resource risks.
- A research/monitoring program to determine the effects of spatial and temporal segregation of harvests on sediment and hydrology.

In July 1981 Oregon adopted nametale boothers as part of the WOS. The state is in the process of eveloping the implementation updates both the boothers and the settering approprias reference state in various econopics in the state. Once this immerseria is in justice, the BLM should coordinate is monitoring boothers and protocols to allow comparison with the inference alle conditions. This is necessary in order to determine whether in WOS approximation of boothers in the protocols to allow comparison with the inference alle conditions. This is necessary in order to determine whether is WOS approximation of boothers in the protocols and the setting of the setting of the addition the state sequents to addort namefor boothers in 35 years. The BLM activities will be expected to make there will be once whether the WOS once where we capacity.

#### **Riparian Zone Protection**

## Concerns

Since the dreft RMP/EIS provides inadequate protection for RMAs in first end second order (headwater intermittent and perennia) streams, WQS may not be met end beneficiel uses may not be protected. The final RMP/EIS needs to include ful protection of first and second order streams.

These final and second order streams are important in meritaling downstream stream integrity and user quality, as will as providing flatenties and amphibian flatelar/indiga. Destrated sits and second order streams may buckness explorate streams and the stream of the horder streams may eventually loss to include if tings organitio darbits in downstream machines. EPA agrees with the Medidor dark TMP/EBS statement that the downstream machines. EPA agrees with the Medidor dark TMP/EBS statement that the statement of the stream of the statement of the stream of the statement of the order streams.

EAA has a number of concerns registing first and second order streems. First, the largest percentage of charain vegetation removal is along first and second order streams. Most of BLM's largest are along the set headwater streams. Our concerns ser heightmend by the last chart the bouck are general of the relative zones are nimited condition... and ....nparian habits in smaller streams has a higher percentage of screes in minimal condition (rage 3-35).

Second, RMA widths are too nervow and could be weekened through road waits varied particle development. Under MPA, kinner Innervoe could occur in righting norms for road construction, yetring, or hashat impovement; however, the draft RMP/IDS does not could in surfar wind any conforms these development. The varies of the particle of the second second second second second second second second second considered instaguants for proper sparsing handbox, and RMAs similar than 150 test are considered to be functioning ites than optimally (logger 4-40).

#### 11

Due to the way in which the WCI is applied, it is essential that it be validated. Until then it should only be very cautiously used as a resource in important project level decisions.

#### Additional Information

The WCI does not provide an adequée assessment of synargistic and/or ournuiative effects for site specific projects. It appears to be quite subjective and may produce variable results. The fails IMM/ECS should provide greater explanation regarding WCI essumptions as well as selection of index constants. In addition, several index factors may distort actual resource impacts.

The major insteing component is a way of claratorizing undertainty in the estimates. This requires a methodology for making and evaluating field measurements and assessing uncertainty. Banded methodologia for propagating undertainty are alkans back and and a start and an another and an another and an another and an another should in the environmental laterature (g.g. Smith and Frezes, 1979). Lath hypercube methods are a subscription of Monte Gard methods (finan and Shottanoffer, 1989). These variables the uncertainty environment of the start of the start of the fractorizer uncertainty methods are establed in Balance and Independent warrains of the another of each of the methods are a subscription of each of the start of the start of the start of the methods and the subscription of the methods. The subscription of the methods.

#### Refarences

Berjamin, J.R., and C.A. Cornel, Probability Statistics and Decisions for Civil Engineers, McGraw-Hill, New York, 1970.

- Iman, R.L., and M. Shortancariar, A Forter n77 program and user's guide for the generation of Isin hypercube and random samples for use with computer modes, Ren. NUREG/CR-9862, SAND82-2686, prepared to U.S. Nucleer Regulatory Commission by Sandia National Laboratory, Abuquerque, N.M., 1884.
- Smith, L., and R.A. Freeze, Stochastic analysis of steady state ground-water flow in a bounded domain, 2. Two-dimensional simulations, Water Resources Research, 15(6), 1543-1559, 1979.

#### **Best Management Practices**

The achievement of WOSs for NPS activities occurs through the implementation of BMPs designed to achieve WOSs. WOSs are the means by which BMP effectiveness is measured. While BMPs are intended to protect water quality, they must be montrared to verify their effectiveness. If found ineffective, the BMPs must be

## Comment Letters from Federal, State, and Local Governments

Third, the draft RMP/EIS relegates first and second order streams to a lower level of protection than higher orders. This is inconsistent with the Oregon WOS and with EPA's regional Riperian Area Menagement Policy. A copy of this Policy is enclosed for your information.

#### Additional Information

The demoter was selected as a measure of relation zone health. The final RMV/FBs shudd incode how dimmet threaholds were selected. These secies and density data shudd also be provided. In addition, factors that may limit lutaner releant more selected and the second second

In addition, the fixel RMP/IEB should carefy how the services widths shown for RMA will be utilized in on-the-ground marking. Specifically, the rink RMP/EB shown of dentry how site-specific retering resource management would be documented and consentry investments. The data document volume is a consentry of registration of the second consentry of the second second second addition. These and second conservations are not conservation of the addition. These and second conservations are not observed as a second the beneficial uses aream: (loga PA2). PA2 moreometras that for RMA/B/EB include both the documentation and the mochanisms to July protect all conditions use improvide second second

#### Watershed Condition Index

The WCI is a reasonable method for comparing watershed effects among the RMP/EIS alternatives, eithough future reintements could improve its effectiveness. It is one of the most complex approaches EPA has reviewed for evaluating watershed effects in a programmetic lend management plan.

EPA's greatest concern is that the WCI should not be considered a substitute for evaluating cumulative effects on a project by-project basis during RMP implementation. In addition, it may be inappropriate to compare the index among cifferent watersheds. The large spatial scale of the analytical watersheds used in applying the WCI could mask significant resource degradation.

12

revised. Therefore, the final RMP/EDS should not rely solely on the sopplication of BMPs to astistly the Gam Water Act. Since the use of BMPs does not quarantee compliance with WGS, the final RMP/EDS should discuss the effectiveness of BMPs with Bursteinson of specific project exceedings and/or monitoring results. For example, the final RMP/EDS could discuss the degree of risk of BMP failure as well as any major of BMP uncess as fluctaties of an efficiences and monitoring in similar project

#### Fisheries

## Concerns

The Solem Diptric manages land in dramages where 30 of the Amelian Finithms Soletty stool of concern ere normally seaming and normaly. The drama Tably fills states that setting seaming and normality seaming and normality. The drama sectore stool of concern ere normally seaming and normality operating production of coho series of the sectore manages in setting and potentiar production of coho series of the sectore manages in setting and potentiar production of coho series of the sectore of the sectore sectore sectore and potentiar production of coho series of the sectore of the sectore of the sectore of the potentiar production of coho series of the sectore of the sectore of the potentiar production of coho series of the sectore of the sectore of potentiar difference of the sectore of the sectore of the potentiar difference of the sectore of the sectore of the potentiar sectore of the sectore of sectore of the sectore of s

We are concerned that the incolucion potential was that high of to the intraction of the histor temporement of a partners including and history material on of the history temporement of a partners including and history adapted to practice networkness and the intuini succession of reparing heat local partners and the intuini succession of reparing heat compared to faith habital improvement programs. They luther stars had parently be attended as a faith moreover startings. Succession and antibility of protection of the habital improvement programs. They luther stars had parently be attended as a faith moreover startings. Succession and antibility of protection and the property of the starting of the protection of protections. Therefore, then the property of the starting of protection modification, proreased inters and the subjection, and allowed regression modification, provide and the subjection compared to a starting of protections. Babitation from the protection of the starting of protection modification, provide and the subjection compared to a starting of protections. The starting starting and the subjection, and allowed regression modification of the subjection compared to the starting descent modification of the subjection compared to the starting descent modification. The starting starting and the subjection compared to the starting starting and the subjection compared to the starting descent modification. and implement district-wide restoration strategies (e.g., restoration of off-channel hobitat).

Resention of operation areas along third octee and greater stratem and the patientment of instrument muchuses will not along that and the postation increases. The first half because much as along the trade to a strategiest and the patient of the strategiest and patients of the strategiest and the strategiest and the strategiest and accurately and operative much as along the strategiest and accurately and operative much as a strategiest and a strategiest and accurately and operative much as a strategiest and the strategiest and accurately and operative much as a strategiest and the strategiest and accurately and accurate and the strategiest and the strategiest and the history states.

#### Additional Information

The Selem District is responsible for the maintenance of sensitive species habitat and the restoration and sustainable management of the resource. To address these issues, EPA supports diversionment of coordinated addrivy management plans. The final RMP/EIS should provide greater detail regarding plan coordination and implementation mechanisms.

In addition, chronic system arseesons, such as unstale sicpes, landidiese, rouss, and mining careful degrade systems proto rencovery sero and addressed. For example, the orth RMP/ESI indicates that dishs formate and landidies have effected chronic integry. The RMR RMP ESI studio lincides where these topola as rogardy and whether further togging would occur in the same imaginement convertions. Is addressling states long-term would occur in the same strateging and whether further togging would occur in the same strateging and strateging strateging and the same first strateging. It should provide prevent memory and against fail strateging. It should provide prevent memory and against the operation.

The Fahrries Productivity Rating System needs turber explanation. Detail alroud be provided regarding the related bectors analysis, and level of baseline data oddeton. For example, temperature data should include time of collection: Series and relation and the series of the serie

The draft RMP/EIS lists several fish species of concern. However, information and documentation (e.g., genetic integrity, diversity) regarding these species are elsent. The finel RMP/EIS should indude:

(e) e comprehensive blological survey;

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- Nehlsen, W., J. E. Williams, and J. A. Lichatowich. 1991. Pecific salmon et the croseroads: stocks at risk from Californie, Cregon, Idaho, and Washington. Fisheries, Vol. 15 No. 2 pp.-4-23.
- Sedell, J.R., G.H. Reeves, F.R. Heuar, J.A. Stantord, and C.P. Hawkins. 1990. Role of refugia in recovery from disturbances: modern fragmented and disconnected river systems. Environment Management Vol. 14, No. 5, pp. 711-724.

#### **Drinking Water**

The draft RIMP/EIS states that the agency's goal is to provide treatable water at the point of intake from its watersheds to public water systems serving load municipalities, in eddition, coordinated watershed plans would be prepared for community water systems where e significant portion of the watershed is edministered by BUM.

This goal alroud be restrict. The goal of waterhead management in valenting specifical publica water to public systems and watery manupplicable. It is assume the near sotrong studies water to public systems and the system of the system of the system systems and meet horsenionally interpret public heads not carbon and the public heads in a guardance. A divide water treatment cost strength target protect the system's system is accounted by a system treatment cost strength target protect to be water to a source of the system treatment cost strength target protect to be water to account of the system treatment cost strength target protect to be water to account of the system treatment cost strength target protect to be water to account of the system treatment cost and the system of the system strength target water management plan. Consequently, waterhead plane will be propered in construction water the system of the system strength target protect to the system of the system strength target and the system strength target protect the system of the system water the system strength target protect the system of the system of the system strength target and the system strength target barranget as planet and target and ta

An important consideration in some BLM districts, would be mining. If mining activities on BLM lands cause significant increases in the concentrations of metals in streams that supply public water systems, this could force these systems to install expensive treetmant systems to remove these metals. This is a possibility which should be explored throughly in this final RMP/EISS for claritice with significant mining activity.

#### AIR QUALITY

The sit quality analysis is based primetry on compliance with the Oregon State station Management Plan (SSMP) and his States Implementation Plan (SIP). Blancker table in the state of the state has public of relation makers of anti-al anticipata at an quality impacts. A forcid screaming level quantitative assessment of an quality impacts is needed to illustrate the turning one is dona in complicance with applicable junca and regulations.

- (b) identification of watersheds supporting productive or valuable remnant populations or communities of native fishes, emphibians, and other aquatic biote; and
- (c) delineation of a well-distributed network of lasst disturbed wetensheds for conservation of blotic diversity.

Adreguate faheries information is needed to realistically evaluate management alternatives. For example, depressed or declining populations may be unusually sensitive to hebitat alteration and degradation. Final RMP/EIS coverage of faheries resources should be comparable to that provided for terrestrial species. Sensitive and priority habitate should be identified.

Recovery and restoration plans should be developed based on a watershad adviss. NPS Assessment, and 2030 Reports. In advisoliton, fait habita wate advisant yield anould be utilized to estabilish/predict habitat quarky. The faita RMP/RIS should induce a table summarizing those sub-watersheat swhere a timber harvestere emphasis would occur. Treatments that may further induce population declines should be excited.

Friester (1982) states the trapertimiting analysis of geower could dise weakbole for the Orgon Determinent of Flam and Willie for the priori DBH 1980 apages the weltermises having a high proportion of their dramage basins within robestes welter the state of the state well being in general to be and only on the state of the state of the state distance of the antionnous the state of the state of the state of the state of the antionnous the state of the state of the state of the state identification ind preservation of celefish in states in states of the state of the state

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- Harr, R.D., B.A. Cottin, and T.W. Cundy. 1989. Effects of timber harvesting on rein-onsnow rundf in the transient snow zone of the Washington Cascades. Inflarim Final Report for the Timber, Fish, Wildlife Program. Pacific Northwest Research Station, Sastile, Washington.

16

#### Sensitive Air Quality Areas

The draft RMP/EIS (page 5-8) patter that the Oregon Rowek Reargement Pan (SSMP), part of the SP, identifies stranging for minning the impacts of smoke from prescribes burning on the drenely populated, designated, nonatainere, and annote samples areas within weather Oregon." The text needs to doubs in gradiar detail and define white a meant by the strem nonstationnerd, designation, eddeals in the first RMP/EIS.

Map 5 in the don't RMP/EIS shows the sanelitive air quality areas in vestern Oregon. The map end the discussion in the final RMP/EIS could be improved if each of the sensitive air quality areas were lebied. The text should identify the sensitive areas that are most likely to be effected by the fourth sets especific solutives in the Salem Darxic. This discussion should also olearly describe why each area has been designated and the significance or each designetion.

#### **Regulatory Requirements**

The final RMP/EBS should provide a description of all applicable regulatory and/or permit reciprovements. The Class H Act and SBP records that prescribed burning not cause or contribute to violations of National Antibiant Ar Quality Standards (MAGRS) of Preveniend Segnitiant Determinion (PBD) Incents. In addition, fourning may not cause visibility impairment in federally-biasynated Case I areas. The all quality dissussion fund deterministent in the proceed addition and not cause or to guidanty dissussion and additional and the proceed addition of the state by more time and segnitiants Deterministent and the proceed addition of the dispute by more time and segnitiants Deterministent and the dispute by more time and segnitiants Deterministent and the dispute and the dispute the dispute time and the dispute the dispute time and the dispute time and the dispute time and the dispute time and the dispute time time

#### Oregon Smoke Management Plan

The oraft RMP/EB indexes that all prescribed burring activities will comply with the OBM. The RMP/EB indexes that all prescribed burring activities of the OBM P, what the OBM P, the RMP/EB indexes that the OBM P, what how affords in the table, should be indexed. The RMP/EB index detects. Any monthlying that the been completed to document the effectiveness of the OBMP and/of the described. Although most problem burris or instancing can be originated by the observation of the observation of the observations of the OBMP and/of the described. Although most problem burris or instancing can be originated by the observation of the complete the observation of the observation. The eir quelity (stocusion in the finel RM/PE)IIs should also discuss whether dimense particulate burning conditions with for different burning conditions out direct the amount of alloweids burning exclusions. This is turn would effect the burnet of alloweids burning exclusions out direct the burnet of alloweids burning exclusions out the considered at the would effect the burnet of the pleanation thet could be considered at the statepactions of the direct of the pleanation of the type relate to be discussed and one fully disclosed in the first RM/PEIS.

#### State Implamentation Plan

The final RMP/EIS should also describe the SIP and its provisions for prescribed burning. The relationship of the SIP and OSMP should be clearly presented. Any restrictions that the SIP could impose on prescribed burning, separate from the OSMP, should be discussed.

The draft RMP/EB states that "yeascribed fire smoke emissions will not be factor in meeting of cullaft standards for MIXI in weather Oragon." The document needs to provide the basis for this statement. How do the predicted lone of biomass consumption compare to emissions of regulated er polturaris? More importantly, how do the predicted tons of emissions compare to the emount of periodulets from percented burning that are assumed in the current SP exolutions.

#### Prescribed Surning

The drift RMP/EB presents a breakdown of the kinds of burns included in precided burning exhibits. Table 41 shows the burnes accounciling do by attempts as well as the torse of containing on by turn type. Based on our review of the sk drift burne acceptant burne, and other burn. The anguing discussion in the functionary burne acceptant burne, and other burn. The anguing discussion in the functionary should be expanded to fully discribe these types of turns, expand the burne acceptant burning the same as or similar to underturning? Which types of burns are acceptant burning the same as or similar to underturning? Which types of burns are acceptant burning the same as or similar to underturning? Which types of burns are acceptant burning the same as or similar to underturning? Which types of burns are acceptant burning the same as or similar to underturning? Which types of burns are to the same as a reflect to a turn burne.

#### 19

Perfoulte concentrations that severe human health standards have been measured up to them field solvinoid 4 a practicable turn. The final MPU/SB needs to discuss human health standards end the impact of preceivad human on people Wing In Nika and fore downind communities. We believe that this is a significant save due to the povisions of the GSMP, PA RIA poloy, and the increased use of underburning.

#### Alternatives to Burning

The draft RMP/EIS indicates that not ell timber hervest units require treatment by preparitied burning. This discussion should be expanded in the final RMP/EIS. A number of elternatives for removal of stash exist that do not involve burning. A general discussion of the types of options would provide useful information.

The doft RMP/ES incluses that no beament on metanizal resement could result in a higher for harar. However, loggin relation on the inclused by harvestlar gratemat and the stand. However, logging relation on the inclused by harvestlar results for info recessively horizons to provide economic incertain RMP/ES muchs agait to improve harvesting systema by provide economic incertain information and any inflation. Use of alam inmerinal a dependence on the capability and economic of the inclusion. Use of alam inmerinal as dependence on the capability and economic of the inclusion and the effect on the logical insolity of improved least unitation and the effect on the lamant.

Finally, the final RMP/ES should activate how the detailion to burn or not to burn in mode. It is the anreat oftwin relation? What are the accounties of testing burning? An analysis of the cost of burning compared is the access of medianated immod are warmed. The detail on criteria the than been used in the part to truth burd detailed. More importantly the final RMP/ES should present the other such as cost, sinvolutil an orderation, sing using consideration, make demand for fail and access the standard should be evaluated in the future regarding prescribed turning detailson.

#### Firewood Program

The draft RMP/EIS notes that '(A) hematives to burning heve helped reduce amissions' (pbgs 5-7). One of these eiternatives is a flowcod program. However, bin indract effect of the BLM freewood program may contribute to reduced air quality. 'Firewood sales would be parmitted under all alternatives' (Appendix 4-145) Interefore, mitigation mesurus for the firewood program should be considered.

Frewood mitigation measures exist. EPA encourages BLM to consider incorporating the following mitigation measures in the final RMP/EIS. We are concerned about the effects of enoids from underburning on reactly elevations and valuable. Typolarly underunning involves lower for the transparatures which allows the smoke to hug the ground and not attain vertical dispersion. The final HWP/IBS should provide more discussion about the human health and valuability effects from underburning. It should also locus discussion on how regulatory requirements overred by the GSM her final Rein/ES needs to darky weather underburning a

Alternative burning techniques exist that can be used to reduce the repart of toeshy burning on a reality. These set torings pointed burges pointed burges pointed burges and grateto find rapid and complete combustion, and movely techniques. We bittere that the all quality discostion would be improved by including a more segneted discussion of while practice BUM has been using and any additional technicose that could be used. In this large of this minimum and the practice and the provided burges and the segment of the second second burges and the practice and the provided burges the RUM. More specifically and the other second second burges problems associated with course undergranging type firsts.

Finally, the orat RMV/BIB cruise that "(planchulas entasions from pascibal burning have not been also not be a major contributor ta aya not problems. Under all atternatives, ell quality impacts associated with BLM ammission advises are romany of very signic studies and would have to advise of the oration of the registration miglional and quality. Tagge 4-71, Again, the finel accument measts to the basis for concentry plant suitar also participation of the suitable no effect on local sensitive and quality areas or fluar interface Areas (Files), individual precision concentration on the last that presched burning on the Sale molecular to a simic oranisation on the last that presched burning on the Sale and public to magnetic orange of angle (Nale Base) fluarity is suitable to a simic oranisation. The last that presched burning on the Salem District the same constraintion.

#### Rural Interface Areas

We are concerned that the OSWP and the 7A will put project in the RA was at the RA are softened as BLM and within 14 to 12 rule of of 10 200-ent (or of the RA areas at the RA area of the RA areas at the RA area of the RA areas at the RA

20

The Wrenichen National Forest, Naches Rungor Darkte Personal Ulga Ferevod Einvironential Assessment (24), Incluid severe line (1), Incurviron mitgator messares to rotouce the emission of particulates seadoled with wootstows. The product single the equivirons in Aniamitte Tell physical activity of the emission physical single the equivirons in Aniamitte the physical activity of the emission activity physical activity of the wood (2) of the free data activity of the emission activity physical single the search and the function and informational materials activity physical activity of the wood (2) of the free data activity of the search activity physical activity of the search and activity of the search activity of the activity and provides and (2) endpression and information and accurs physical activity of the local activity activity on public information and accurs physical activity of the local activity activity on public information and accurs physical activity of the local activity activity on public information and accurs physical activity activity of the local activity activity on public information and accurs physical activity activity activity activity on public information and accurs physical activity activity on activity activity

## IMPACT DEFINITIONS

The draft RMP/EB upset here its of the RMP as the basis for defining short-sime and long-arm fine frames for impact consultions are required by the Council on Environment Quety (CEQ) Regulators implementing the Possibular Environment Quety. The dist RMP(ES) administ advectment as in types of tasks for the totals appropriate for all reduces categories. Our primery concerns is for the bible shound on BLM administrative times. A considerable grange in fits game static bards than a different primers. A monitorial task for the bible shound on define short-term impacts marks that cane population of that and bible, for early copatibility of the different primers and the population of the and bible, for early copatibility of control the different primers. The control treat is maging copatibility of control treats marks that cane population of the and bible, for early copatibility of control treats marks that can be populated on the bible. The company copatibility of control treats marks that can be populated on the control treats is marks.

The definitions of shortsman and long-term impact would be greatly improved if the first first first shorts development is found to the short first first shorts development. The short first first shortsman is found to the short first shortsman is found to the short first shortsman is the short of the shortsman is the short shortsman is the short of the short first shortsman is the short of the short of the short of the shortsman is the short shortsman is the short shortsman is the short of the shortsman is the short of the shortsman is the shortsman is the short of the shortsman is the shortsman is the short of the shortsman is the short of the shortsman is the

In the case of eir quality and water quality impects ten years is not an apropriate time frame for assessing air quality, water quality, or aquatic hebitat. A ten year time frame does not comply with regulatory definitions. We suggest that the definition for short-term water and air quality effects should be consistent with state WQS and this SIP. At a minimum short-term air and water quality impacts should exist during the course of specific solvities and should be held to the shortest precticable period of time.

## SPECIAL STATUS/THREATENED AND ENDANGERED SPECIES

#### Consultation with U.S. Fish and Wildlife Service (FWS)

Since activities conducted under the RMP could effect threatened or endangered species, the final RMP/EIS should include the Biological Assessment and the associated U.S. Fish and Wildlife Sanice (FWS) Biological Opinion for the following reasons:

- NEPA requires public involvement and full disclosure of ell issues upon which a decision is to be made;
- The CEQ Regulations for Implementing the Procedural Provisions of NEPA strongly encourage the integration of NEPA requirements with other environmental review and consultation requirements (40 CFR +502.25); and
- The Endangered Species Act (ESA) consultation process can result in the identification of mendatory, reasonable, and prudent alternatives which can significantly affect project implementation.

The potential effects on listed spacies are relevant to the subsequent project load dealows. Both the Bloogics Assessment and the EST must disclose and evaluate the potential impacts of the proposed action on lists spaces, such as the perspirite fector. Jeed segs, nothern spacet ava, markets mirretit, and oCulmbian white-tailed dear. Information and relevant management guidance regarding the recent large of the market murreties that be added to the final document.

The final RMP/EIS and Record of Dacision should not be completed prior to the completion of ESA consultation. If the consultation process is treated as a separate process and the FWS identifies recessary changes in plan implementation which have not been evaluated in the draft RMP/EIS, a supplement to the RMP/EIS could be warranted.

#### 23

mineral exploration and development project proposals is gathered from project proponents, the coordination and resolution of consultation activities cannot be delegated to a private party, even though the nondiscretionary nature of some activities could make resolution of project activity impacts on isted species difficult.

#### WILD AND SCENIC RIVERS

The doth RMP/ES recommends different numbers of while and somer hare segments to despine to under the values attendieus. Assume nuesdant attendieus (N) end A necommend no river segments, and Allernatives B and C segments dates. Allernative D ecommends four, and Allernatives B and C segments. Allernative D P ecommends four and attendieus of the segments attendieus (N) end A necommend is no river segments but have and segments. Allernative D P ecommends and online segments but have attendieus es in menagement direction and objectives; the physical qualities of each of the neire segments under considerity would be and to built significants attendieus. This election, if a inter segment is built significant extension for each of the neire segments under considered would seem to be unsame under each of the attentiatives of the the segment at built significant attendieus.

In addition, not al stream slight for wild end been over designation as studied for utability in the draft RW/FG in the document notes that that well be interm management, dt RJA lies within a half-miss condro of these streams in odder the denomes additional in the stream management, such as exclusion of notes interest in denomes and restriction of tessable and salable minard development, docume as exclusion of notes interest in denomes and restriction of tessable and salable minard development, at does not give a timeframe to the "interem", managed under the specific moder and the stream management and the stream management and the denomes additional the "interem", managed under the specific moder againing these streams.

In Segumber 190 Oregon revised 19 VOS to dd en antidepunktion poly under SIG4-1026. The poly define with will be consisted of business Vietnam GMN and Jean. The poly define with will be consisted of plasma many secally designed in the standards states in the Commission mer subcetly designed in the use of the standards in the standards Resource Vietnam Infr, under Vietname of the standards to the define vietname of the standards of the standards and the standards resource of these standards and the standards the definition index will be designed a flower standards. The standards are stated and the Source Finance without the standard state of the standards and states and the standards. The standard state of the state of the states of these weedbads. Finance were booked an index will all and the states of the states of the states are states and the states of the states were called by an excert states the states of the states of the states were called by an excert states and the states of the states and the states are states and the states of the states of the states are states and the states of the states of the states are states and the states of the states and the states are states and the states of the states of the states are states and the states of the states of the states are states and the states of the states of the states are states are states and the states of the states are states and the states are states and the states are states are states are states are states and the states are states

#### Coordination and Consistency

The dath ReV/EIS preserva grant data of information regarding the northern species cut. Since the concern and activativery regarding this specifies a number of years, federal symptomic, and outcreases, there are a number of prime and propriess that activatives and outcreases, there are a number of prime and propriess that activatives and outcreases, there are a number of prime and activity, and draft reports and noncommendations, such as the Draft. Recovery Plan for the Northern Specific ACV FVS (1952), The Bird Bird Managameria Species Committer Bird of the Since Target and the Since Activity and the Species Committer Birds of the Since Target Activity Since Committee Common Species Committee Record of Destini Chird, Alternitives and LoneSincesconter Press Ecosystems (1951), A Comstevelion Strengt or the Northern Species Committee File)

For example, the final RMP/EIS should compare how the connectivity ereas in the RMP compare to the S0-11-40 rule outlined in the ISC report. The draft document states that

The ISC originally developed the 60-11-40 orbania as a standard to availate dispersal habitat scross the landscape. This approach works well in the case of the U.S. Forest Service where there is configuous foderal land ownership. However, over much of the planning area, the BLM administers only helf of the forest lands, (page 4-43)

The implication of this discussion is that the 50-11-40 orterio do not tapply well to Bursui india. However, the ISO was commend through the cooperation of three feature lagarcise, one of which was the BLAL. Presumably, the ISO was inware of targent land avantating patterns as a forwards the incommendations. Threeform, the connectivity arises and the supercised results of septilation of the 50-11-40 rule and the monand for directing one strating your the other time IMPL/PEIS.

Finally, the final RMP/EIS should address management direction for timber sale areas exempted by the Endangered Species Committee in 1992.

#### Nondiscretionary Activities/Minerals

The draft RMP/EB seems to be happropriately delegating consultation responsibilities requiring nondiscretioning activities, and is locatable infinerel exploration and development. It states that such activities "...which might ipopartize focarity. Listed threatened or end angered blents, mey have to be resolved between the FNS and the comments' (long 2.9). Compliance with Section 7 of the ESA is the responsibility of detail agencies, such as the BLL. While important formation about

#### 24

except on a short-term besis. In addition, land menagers will be expected to fully participate in the development of management plans to protect those waters.

#### ACCESS

The card RMA/EB notes the elements and reducion infl-charay segmentrary provide access to Dip provinci degrees junct (approx 100, togrees). In would be intellulat in frant RMA/EB also gates an indication of how much access the BLM and inclusion and the second secon

The document indicates that new "...timber harvest roads would be kept to the minimum necessary for management" (page al) and that "(A)I roads would remain open for administrative use, forest produces removes, and access for minimal exploration and development." (page 2-11). Two concerns arise related to this management circefon.

Figure 46 with RMP/ESI axis for the use of an interdiscipring process to develop the ownit interportation systems and the autebilianter of note metagraphic evelop the service interportation of the autebilianter of note metagraphic and interminged interportation on the BLA will according the autebility of the system and accompliant roads interportation systems and accompliant roads interport and accompliant roads interport to automatication and accompliant roads and accompliant roads and automatication and accompliant roads and accompliant roads and automatication from the Faderal Land Palory and Management Act of 1975. The faderal automatication from the Faderal Land Palory and Management Act of 1975. The faderal automatication for the faderal subscription of an amount automatication for the faderal Land Palory and Management Act of 1975. The faderal activity of balances there management accident credit cale factors. The faderal methods the assist in eccompliant gradies and management accidents.

Second, the draft RMP/EIS mentions road closures in a number of contexts throughout the document in conjunction with various management objectives. For example, on page 2-28, the draft RMP/EIS notes that "(A)costs management, including closure, would be applied to reflect blockwestly and multiple use needs," and on page 2-41, the draft RMP/EIS to close and formation sites and notes that the science shares and the science state science and the science of the science science and the science science and the science science and the sci If ".-minimumo of such teclities in not adequately blocks, done of them may be observed." The term includer appears to be used in how ways in the addR BM/ESS. To be the submitting the submitting the submitting and the submitting the submitting technologies and technologi

The discussion of road issues for Alternative C notes that where

"...road construction is needed, road density would not exceed that needed if clear cut harvesting were planned...It may be preferable to use more expensive logging techniques then to build additional roads, provided the seles could be stold above the cost of sele preparation." (2.28).

This is also stated for the PA on page 3-53. Many (breating control that portion is and otherwood systems often receive greater read drafties than indexant systems in addition, partial dut and a therwood systems may have higher per unit asis and therwood systems of the systems may have higher per unit asis and therwood systems of the systems may have higher per unit asis and therwood systems of the systems may have higher per unit asis and therwood systems of the systems may have higher per unit asis and therwood systems of the systems of the systems of the use of helpopters is an option for accessing and have writing these asiss. If so, the final RMP/ISB involves if not accessing and have writing the supervised by thore who could be significant in arms of vary tow ambient roles levels. One source of histomation on histophy character shall be the system of the lower and the systems of the system have been as the system of histomation on histophy character have been as the supervised by the systems of the system of histomation on histophy character have been as the system of the system of histomation on histophy character have been as the system of histomation on histophy character have been as the system of histomation on histophy character have been systems of histomation on histophy character systems of histomation on histophy character systems of histomation on histophy the histomation histomation have been histophy character systems of histophy character histophy c

#### TIMBER MANAGEMENT AND SILVICULTURE

The final RMP/EIS should clarify the BLMs philosophy regarding the annuel sale quartity (ASQ) and identify whether it considers the ASQ a goal or a mandeted level of imitier production. In addition, the draft RMP/EIS essumes that there will be sufficient

27

The successonning analysis concludes that the reductions in thinkin havest accordent with the PA would be expended to result in significant modulons in employment and locome in the effected area. The Risman's Falls date RMP/EIBs provides a scenerika more complete province in that provides and enterwhold effects of the BLK and Forest Sovice land menegement alternetives. We recommend that the first RMP/EIDs Device land menegement alternetives. We recommend that the RMP/EIDs Device land menegement alternetives. We recommend that the RMP/EIDs Device land menegement alternetives. We recommend that the RMP/EIDs Device land the constraint of the enalysis be spandrad to incubat more information on the rectors of the economy.

The outmet samples separes to be a stello enables, it implicitly assumes that one reactors of the occommy do not dragen over the analysis provide and thus above the posterial effects of the BLM and Forest Service assive) in incidents from the rest of the occommy. The application of the assistantially more useful BLM entered as inputs to the input-output model current foreasts of how other ascides of the Oregon accommy are application of the analysis and the assistantial assist

A secondary benefit of dong the type of expanded analysis suggested above is the timpit provide a plotum of with types of plots might become valiable in the tupes and what types of plot twinning on vocational twinning would assaid displaced the timpit provide and the tupe of the tupe of the tupe of tupes of the tupes of the tupe of tupes and evaluate of tupes of tupes of tupes of tupes assistance that might be used to might the edvance or molysment impacts of the assistance that might be used to might tupe of tupes of tupes of the assistance tupes of tupes and tupes and tupes and tupes of the assistance tupes of the tupes of tupes of the tupes of the tupes of the tupes of tupes of tupes of tupes of tupes of the assistance tupes of the tupes of tupes

Finally, the finite RMV/RBS could also be improved if the dogset to which the sonomic activities on BLM menaged that due to Hely to be economically self-supporting was addressed. A questitative analysis of each "revenue and cost setum wood allow the audience of the ARV/RB to underead the magnitude of the good public publicy. In addition to this harvest revenues, this analysis should include such times of granger been of microscopies.

### FUNDING

The draft RMP/EIS states that "timber sale volumes and associated programs would be reduced if annual funding is not sufficient to support the relevant actions Andhag for breatry schedules, such as reforesation, thering, thes improvement, and inferdination, is apposing of the ASD and legging A11, Same these activities combule to the ASD, the final document should identify already and programs profiles that implementation. This is particularly important ance elementate includes that implementation. This is particularly important ance elementate includes that implementation. This is particularly important ance elementate includes that unadequent costs and the AS of the AS first BMP (FEB assumes that reforesation under the ANV use only operationally important better efforesation under the ANV use only operationally important encodes that the ASV use of the prediction important the and use the ASV and the ASV and the ASV and the ASV and the ASV use only operationally imported threations and/or the ASV use only operationally imported threation and/or the ASV use only operationally imported threation and/or the ASV and and the ASV and and the ASV and the ASV

The final FMP/IEs should conside timper sele economics as a masymmet comm for analysis in segments to the Upbold disduced timper selection response to the instance controlly regarding balance-osts timber asks. The drat formation of the instance control and percommendation of the drat instance and percent and the percommendation of the drate material and the selection of the drate of the selection of the Analysis on page 4.2 indicates and both percommendation indications indications of any drate of the selection of the selection of the selection of the date descriptions of key sesured in selection percent should provide dear descriptions of key sesured in selection of the selection of the disconting descriptions of key sesured in the selection of the disconting descriptions of key sesured in the disconting date date methodismon

EPA supports the process in Alternative C encouraging autenments that could be \_purparead with privise Individuors and other haid managingment agencies to optimize the extrat and distribution of old growth neteration and reletion areas while imitarity under language on multiple resource una. Te PA would also lis to encourage coordination with adaption language and the management protection, perclosely invest activities. The density and the grave and and and the second second second and the second second second second to be of a contribution set 1/2 feet tab) or story to be them adaption. There as such any to harvestad.

#### SOCIOECONOMIC ANALYSIS

The GED Regulations state that "When an environmental impact attances to propried and scontamic or scolar and native of tryphole and-incompare affects are interested to than the environmental impact attancement will discuss all of base effects on the human environment." (Section 10:16) (1). The proposed action will affect are interer communities in western Oregon, the artise state and the Pacilie Northwest: region. The crint RNP/GEB has evaluated the environmental consulturation affect proposal. EPA is providing comments and suggestrom on ways to improve the analysis of the scolar de occountie effects.

28

assumed in the plan." (agap 8.41). We see concerned that the PA and attemptive C will be coatter to implement since they both contain more nontractificational transer management approaches. The draft RMP/ES indicates that for these two abenetises the coats of nontradisional timber management would be approximately 2.8 simes higher per unit of timber sold than for the more traditional timber menagament alternatives.

The final RMP/EIS needs to describe in preserve dealt: how ELM Knordg wws is extebilized each vary werker's advances are based called in the emount of inner or or, whether seath vary is advanced to the second of the second of advances and the second of the second of the second of the advances and the second of the second of the second of advances and the second of the second of the advances and the second of the second of the advances and the second of the second of the advances and the programs. The first RMP/EIS needs to describe an experiment of testing and the second of the second of the second of the second of the advances and the second of the the second of the second of the second of the the second of the second of the second of the the the the the the second of the second of the the second of the second of the the the the the the the second of the the the the the the the second of the the the the the the second of the the the the the the second of the the the the the second of the second of

#### CONSISTENCY AND COORDINATION

While the Appendix discusses egency efforts to work with state spencies and outries on ways to melle the RMP consistent with planes, policies, and porgrams, of other apencies, the document does not discuss what effort was meet regarding National Forces Land Management Plane for adjacent Forces Service lands (Appendix 1-5, page 1-52). It other ideate lands are key to the success of an attemative, the event of plan interpretamentation.

The dreft RMP/BS briefly discusses agreements that "...may be pursued vite provide landowner and other land management agreeses to obtain an optimum distribution of old growth restruction and relation areas while the impact on intrajetion of our growth restruction and relation areas while the language of the BLM to pursue coordination, and if position, consistent of start while the indowners, both public and publics. The final RMP/BS should further undhe and subcorr objective agreements.

#### TIERING AND NEPA COMPLIANCE Appendix II

The CEQ regulations encourage tiering of NEPA documents

Agencies are encouraged to tier their environmental impact statements to ssions of the seme issues end to focus on the ectue ninate repetitive discu issues rice for decision at each level of environmental review (§ 1508.28) Whenever a broad environmental impact statement has been prepared (such as a program or policy statement) and a subsequent statement or enviro assessment is then prepared on an action included within the entire program or policy (such as a site specific action) the subsequent statement or environmental assessment need only summarize the issues discussed in the broader statement and incorporate discussions from the broader statement by ence and shall concentrate on the issues specific to the subsequent action. (40 CFR § 1502.20)

While programmatic documents, such as RMPs, provide important management direction, they do not contein sufficient site-specific detail to substitute for site-specific analysis for individual projects implemented under RMP direction. For example, in the draft RMP/EIS, under ell elternatives, "...air quelity impacts associated with BLM administered activities are normally of very short duration and would have no short or long-term impacts on regional air quality," (page 4-7). While the programmatic RMP tally addresses potential eir quelity impacts in the region, its brief analysis should not be used as the basis for concluding that future site-specific prescribed burning proposals will have no effect on local sensitive air quality areas or RIAs.

The draft RMP/ES implies that there may be a second level of plenning solvity between the RMP level and the individual project level. If activity level planning is arother decision, such activity activity activity activity activity to the provisions of MEPA, as are individual project decisions, such activities are subject to the provisions of MEPA, as are individual project decisions, such activities that the subject activity silvicultural treatments (including site preparation and prescribed burning proposals).

Further, the final RMP/EIS should provide specific direction regarding the preparetion of tiered NEPA documents. The draft RMP/EIS refers a number of times to future tiered EAs, but this should not be construed as a directive to prepare solely to http://terec.cxs, out this should not be consuded are a resource or protect strong EAs for individual projects. In some cases, EISs or categorical exclusions (CE) will be more applicable. Therefore, the final RMP/EIS should idensify the criterie for determining what sort of NEPA documentation will be required for future projects (EIS vs. EA vs. CE). In addition, it should provide guidance for the scope of anelyses expected in these tiered documents to clerify what analyses and issues are considered completely addressed in the RMP/EIS, and what energies and issues should be further considered based on site-specific resources and conditions.

				Continues
	Def	Table S-3 (Continued) extra Used in Effects America	100	
		Effect-Level Definitions		
VERY LOW	LOW	MODERATE	HOH	VERY HIGH
Resource Calvater				
Land Use Plans and Comini Massgament Programs				
Antivities peacetly orthorn with relating land use tool with policies of local, Shate, and Poderal countal stanage- ment programs and land use plant.	Ambidies infinge on pro- posed land use, or they conflict with one policy of local, Seate, or Federal constal exangement pro- grous and land use plana.	Activities lafrings on existing land site, or they conflict with two politics of local, State or Potensi ecosisi mesogenesit programs and land use plans.	Anivities also: a performed land use, or they emilied with three policies of local, State, or Performi coestal management progress and land use plane.	Articities are incompetible and displace a preferred ion was, or they condition to four or more policies to local. State, or Federal control monoparates per prom and lead use plate.

AL-Changes in writer quelity from case or more selectis, assuading beyond the selign of a mining none (10km reducit) to an identifying body start feedbarryn. EEGIGNAL-Changes in writer quelity over an men of an issue 1000 har for singer alsond a chahenge sowner (20 km staado on the protocisian of human headbarr. Marching and the selign alsond a chahenge sowner (20 km staado on the protocisian of human headbarr. Marching and the selign alsond and the selign alsond a start (20 km staado on the protocisian of human headbarr. Seligned and the so starts that are so if sympt alsond there the selign alsond (20 km stable on the protocisian of human headbarr. Seligned and the so starts that are so if sympt alsond there the solution (20 km start) seligned and the solution of the solution the solution (20 km starts methics) heads and the defension of the solution (20 km start) seligned and the solution (20 km start) seligned the solution (20 km start) seligned and (20 km start LOCAL-O LOCAL-Charge is write km<sup>2</sup> about such discharge.

or years. are applied only to PSD Class 1 areas, significance is determined by BPA visibility-analysis prideli

Effect-Level Definitions

	De	Table 3-3 Initions Used in Effects Assess	nen	
		Effect-Level Definitions		
VERY LOW	LOW	MODERATE	INCH	VERY HIGH
Banoucce Category				
Water Quality?"				
No regulated rotateniani la dischargel into the wolfer contanged into the wolfer contanged by the resulting repenteristics of occur mission repenteristics of occur mission devices con across the across or abuvels States unadards or UPA eritantica.	A regulated contaminant is discharged into the writer contaminant in the second second second controlless of contaminant containership second the test containership second is second to instruct the second second percent the second second percent the second second percent the second second percent second second second percent second second second percent second sec	A regulated contaminant is discharged jate the work discharged jate the work of contaminant of contaminant intergraph and the second second (work) (work) from interfaces and work (work) from interfaces and work (work) for interfaces and work (work) for second and (work) (work) for executed and (work) for executed and presentations. Account second 2020 pres subjected world contemportation. First source and work of the second second second second second second 2020 presentation of EFA criteria are not exceeded.	A regulated containing is contained into the white containing into the model containing the second second is about the neural (south) status marked or IDA are indon more than occe in a Synar pailed. Con randolly mered a static second random more than been list a Synar period.	A regulared contaminant in decharged islo the write concentration of collumniant is above the acute (low) being any strength of the second being any strength of the second of the second second second protection and the second of the second second second second of the second
Augical Resources				
Individuals in a population experience sublethal efforts that do not thange popula- tion abundance or datafou- tion.	A population or portion of a population changes in shun- danse and/or denshution in a localized area and/or for a short time period.	A population or portion of a population changes in abus- discented/or distibution but would recover to its former status within can generation.	A population charger in abundance and/or distribu- tion sequiring one or two generations to recover to its forgue mater.	A population shanger in shundrars and/or distribu- tion requiring them or more generations to prover to its former status
Endangered and Threatened Species				
No discertible population dedisc (no latinal offects), but a swatter of indefaultat reperiment subletital effects and would recover to pop- activity conditions within 1 plac.	No discernible population declines (no lettal effects), but a number of inderstvate experiesce stubiettal effects and would prover to pre- netwidey conditions within 1 to 3 years. Distribution datapath distring a low resubter of in- dividual in a small local areas would take an longer than the project.	A population declare (includ- ing lethal effects to a low number of intrividual), are welling in a micro change in the distribution safe in the species. The expected Germion of the expected Ge	A population decline re- soling in a charge in the dis- tribution and/or abundance of the openies with recovery in less than one presention or 6 to 10 years.	A substantial population dockness that results is a change is the distribution and/or absorbance of the species with memory in more than one generation or more than 33 years.
Encoury of the North Stope Encough				
Economic affects that will not know a measurable affect on the ecceentic wall-ballog of the residents of the area. "well employment is in- used by less that 30 per-	Economic effects that may marginally affect the storecom- ic well-being of seadence of the next. Local employment is increased by 10 to 19 percent for less than 5 years.	Economic effects that will immediately affect the eco- nomic well-being of mai- denia of the area. Local employment is increased 10 to 19 percent for at intel 3	Economic effects that will significantly affect the eco- nomic web-being of residence of the area. Local employ- ment is incruand by 20 per- cent or more for join than 5	Economic effects that will take important and sweep- ing sharings in the economic well-being of residents of the area. Local employment is increased by 30 persons or mercane been been even or

U.S. Environmental Protection Agency - Region 10

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## Riparian Area Management Policy

#### PUPPOSE AND SCOPE

This document establishes Region 10 EPA policy on the management of rigarian areas, primarily toos affected by nonpoint source (RPS) activities. EPA recorpitals that foreign areas have many important "Innoting and policest runnerscore structures and the foreign areas have many important "Innoting and policest runnerscore structures and the foreign policy of the structure structures and the structure structures and the policy of the structure structures and the structure structures and policy and endormal matter structures and the structure structures and endormal structures and the structure structure structures and policy and endormal structures and the structure structures and policy and endormal structures and the structures and policy and endormal structures and the structure structures and policy and the structures and policy and these. Policy policy and the structures and policy and and policy and the structures and the structure structures are applied and policy and the structures and policy and the structures and policy and the structures and the structure structures and policy and the structures and policy an

#### This policy will:

- Alert local, state, and federal land managers, owners, and users to EPA's concerns in the riparian area planning and management process
- Assist the states in Region 10 with the implementation of riparian area protection or improvement in their management programs 2)
- Provide guidance to Region 10 personnel in the execution of EPA's responsibilities under the National Environmental Policy Act (NEPA)<sup>\*</sup>, the Clean Air Act<sup>\*</sup>, and the Clean Water Act. 3)

#### DEFINITION

Riparlan areas are zones that influence and are strongly influenced by an adjacent aqu Ripartam areas are zones that influence and are strongly influenced by an adjacent aquatic environment. They areas a strong the consistence or as an exotone between aquatic autor trensfaral accounts, but have district vegetation and soil characteristics because of seasonally free and unbound soil molisture. These areas are associated with where, leave reservoirs, and intermittent, or parternal streams. They may also be adjacent to springs. seeps, wetlands, and ephemeral streams

Topographic main and presented of depositional apile most storegy initiateneon the adart burgers by the adaptive store and the store of the storegy of adaptive area varies from pile to atk and must be determined for each specific location. Some relation means and defined as writtends, "Density as most, boards they do not possible the most store and a writtends, "Density and the store of the store of the store most store and the store of the store of the store of the store of the most store of the most store of the store

## Monitoring of Riparlan Areas

EPA believes ripartian eraes monitoring should be shipp priority for any MPS management program. Monitoring is aluation for land management provides their success in meeting their cipieches for innorving and protecting ripartien areas and view quality. When monitoring muscle fandeta violations or other problems, adjustments and he mode in the practices implemented actively provide environmental monitoring at tai fandet constained with actively promote environmental monitoring at tai fande constained with actively promote environmental monitoring at tai fandet constained with actively promote environmental monitoring at tai fandet constained with actively promote environmental monitoring at tai fandet constained with actively promote environmental monitoring at tai fandet constained with actively promote environmental monitoring at tai fandet constained with actively promote environmental monitoring at tai fandet actively promote environmental monitoring actively promote environmental actively actively actively actively promote actively actively promote environmental actively actively promote envi

## Public Education and Involvement in Riparian Areas

EPA will use reviews of Section 319 grant proposals, NEPA documents, program and project plans, continences, propered presentations, information exercises, and distribution of written matchina to increase the exercises of and responsibility to treatily protein actions. EPA with the section action of the section of the section of the section of the action actions, and responsibility frainin areas. The goal of these actions to have a molvedet, educated public who understand the value of and chickal needs for healthy right merses.

## Site-Specific Prescriptions

do

EPA will encourage and support innovative solutions to site specific problems in riparian management.

#### U.S. Environmental Protection Agency Lating System for Drugty Environmental Impact Statements Definitions and Follow-Up Action\*

#### Sectromental Deport of the Asking

D = = Lack of Objections

The Dovironmental Protection Agency (DDA) rester has not identified any potential environmental impacts requiring exhibiting charges to the proposit. The arrier may have discipant appopting the for replaced on this set of the second second

## EC - - Environmental Generation

The EM review has identified contronsental impacts that should be avoided in order to fully protect the excitantees, forrestive measures may require changes to the performed alternative or application of mitigation measures that can redeve three impacts.

#### HO - - Environmental Objections

The DNA review has identified significes, swriteneetsi impacts that should be reaided in crists to provide elegants gatestion for the environment, Consective environment of the statestical shapes to the cristeric elements on considerations of some other project elementative (including the some section ' linearity of elements' on the statestic of some other project elementative (including the some section ' linearity' of the statestic of the state of the state with the level appropriate interactive the statestic.

EF - - Environmentally Unsetiefectory

The UK projection for distribution of the state of the st

#### Adamacy of the Inpect Statement

Category 1 - - Adequate

The half-ormes the desire TIS adopted y stat doubt the sociansestal import of ref the performed interestive and these of the sizencienties researched y weights or the project or restaris. In further malaysis of data collection is escenessly, but the project or restarts and the addition of electropical imparaest information.

Category 2 - - Insufficient Information

The draft IIS form and conducts sufficient information for IDA in fully enserse movinemental imposite that should be enclosed in reduce to fully process the servicenses, or the EDA retrieve has identified are researchy would inclusion the mater within the operation of alternative ensayed to the draft IIS, which could reduce the environmental imposts of the contain. The identified additional information, descentions, the identification of the draft IIS.

Cebugczy 3 - - Insdequate

We have a sector that the field HI density waves potentially detrictions enterpretent density of the Harrow test of tharrow test of the Harrow test of the Harrow test of the Harrow te

 From IDA Humani 1640 Policy and Procedures for the Series of Tederal Actions Investing the Invironment, Polymany, 1807.

X-027

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## RESOLUTION NO. R-9293-03

764

#### A RESOLUTION IN SUPPORT OF CONTINUED MANAGEMENT OF 0 & C TIMBERLANDS

2

Whereaa, the Bureau of Land Management has requested public input on its ten-year land and resource management plan, and

Whereas, the health, peace and safety of the people of Douglas County are affected by the alternative selected by the SLM for the management of 0 & C timberlands, and

Whereas, the natural resources provided through aggressive management of federal lands under the 0 & C Sustained Tield Act of 1337 has contributed to Social and sconcenic stability in 18 Western Gregon counties, including Douglas Count, and

Whereas, the counties have invested more than one billion dollars to fund intensive forest management on these lands with the explicit expectation of an engoing return on this investment, and

Whereas, 0 & C lands continue to provide a reliable employment base for many Oregon communities, and

Whereas 0 & C lands also provide diverse and sustainable habitat for fish and wildlife, clean air and water, and outdoor recreation opportunities, and

Whereas, these lands should continue to provide economic stability, healthy and productive forests and reliable employment base.

Therefore, be it resolved that the City of Drain supports the continued management of these lands in accordance with the 0 A < (large the control of the

Be it resolved that we support the principles of multiple use for these 0 & C lends which include management for timber, water, recreation and wildlife, and

Be it further resolved that we encourage legislation that would enact a balance management plan into law by the Congress of the United States of America and remove management decision from the federal court system.

Passed by the City Council, of the City of Drain, Douglas County, Oregon this 14th day of December, 1993. //

1992. Wes Anderson, Council Pres.

ATTEST: Dill Ewing, Cit Admin. City of Drafy

4.0- Box1 38 Druin OR 97435 ELIGENE (DEINE) D. TIMMS HARMEY, LANE, MALMOUR, R.JAMON COUNTIES DISTRICT 30 REMY TO ACCRESS INSOMED: 7 Search Damer Searc, OR EDID 1917 3 Tell K Cont



OREGON STATE SENATE SALEM, OREGON 97310-1347

December 22, 1992

D. Dean Bibles, State Director Bureau of Land Management PO Box 2965 Portland, Oregon 97208

Dear Mr. Bibles,

I feel compelled to register my concerns with the Preferred Alternatives outlined in the Resource Management Plan and Environmental Impact Statement which will result in a ten-year loan for the BLM lands.

As is noted by BLM staff, the Preferred Alternatives will have a negative impact on key Oregon industries such as timber and agriculture.

1 do not understand how we have come to this predicament. BLM limits have been used for docates as multiple use links that provide a base for eccencise tastivy. It nove appears there is another agenda that would ake productive limits and set them off for eccencise, etc. Where was the public input that liot to the Performed Alternatives. Can take be altered at this time? Have you considered the key industries, the County governments and the regional public in your decision?

It would constitute a serious set back of our economy if these plans were to go from draft to final with little change. I request that this train be stopped deal and the public be called in as a partner to assure realistic uses of the public BLA llands. Please change the timetable fur consideration of public comment, and work much closer with the public in reaching conclusions such as Preferred Alternatives.

Sincerely.

Gene Tinams Senate Republican Leader

Appendix II-25

Mr. D. Dean Bibles

Portland, OR 97208

Dear Mr. Bibles:

State Director Sureau of Land Management P.O. Box 2945

for the porthern spotred ov!

BORG of

Northanat Region

I appreciate the opportunity to review and comment on the six draft Res

Convell. I an impressed with the depth and thoughtfulness of the draft Overall, I as impressed with the depth and thoughtliness of the fact plane; your staff and all those involves as to be conceased. However, is be have uses concerns about how fact they have been been been been been been been provided and the set of set of the strategy or the first movel provided in our heplaness of this we appet to have to compressive this have alternative in our heplaness to the FSIG on maximum set of the set

I appreciate the opportunity to review and commant on the six tank, each desired with Management Finan/Environmental Impact Extension to your useanity event our for public comment. I have attempted to coordinate and consolidate the reviews of the documents done by Forest Supervisors and by this office; the enclosed papers and lattere constitute ay response to the draft documents.

I believe state the LEC strength or the dott Recovery Find provides 4 course basis for conjection in meeting pointed out recovery most and management point analysis and objectives. As you develop your finds plance is accourd point developed by the rise man willing the vertice, and the evolu-ing the strength of the strength of the strength of the strength difference or inparts have not space to the could result in less two points and the strength of the strength of the strength of difference of the strength of the strength of the strength of the points and the strength of the strength of the strength of the strength of points lands.

P.O. Rox 3623 Fortland, OR 97208-3623 333 S.W. First Avenue 333 S.M. PILOC AVEL

Deter December 21 1992

Reply To: 1920

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ENCLOSURE

COMMENTS FROM THE U.S.D.A. FOREST SERVICE, REGION 6 CONTHE STORE OF A CONTRACT OF LAND MANAGEMENT ON THE SIX BUREAU OF LAND MANAGEMENT MESTERS CREDON DRAFT RESOURCE MANAGEMENT FLANS AND ENVIRONMENTAL IMPACT STATEMENTS

December 21, 1992

#### PAGe 1. Northern Spotted Ovl à want belated Competer Timber Modeling and ASQ Calculations (Salem District Plan) 4. Parent Peat Management s Pural Interface meants from the Siskivou and Roque River Estional 6. Poreste (Medford District Plan) 10 7. Commente from the Siekiyou National Forest 12 (Coos Bay District Plan Comments from the Ninema National Porest в. 13 (Klamath Falls Plan) Commente from the Siuelay National Forest 2. 1.6 (Sales, Bugene and Coos Bay District Plane)

hy Agen Regional Forester Enclosure

Sincerely.

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dan Ewania

DEC 28 1014 (Hr. obr) (C. 910 Quis 933 2

1. Northern Spotted Owl

Commendatione

The BLM should be commended for the major shift toward a more multiple-use anagement emphasie

We wish to thank those BLN employees who helped us with information during our review. In every case, that assistance helped us understand more of the protection being offered to the spotted owl.

We appreciate and convend BIN for their continued support and conduct of spotted owl-related research, both within the BIN and cooperatively with others including the Forest Service.

In Journy 1933 the Process Service completed A Final Huritemental Impact Distances (TBR) this prederived Linearius to analyse descripts to ball the Distances of the Service In January 1992 the Porent Service completed a Final Environmental Image

We have command the Dreferred Strematives for the Draft DND's with the IGC Strategy Relative to the ISC Strategy, the Draft RMPs

Zecult in 62,000, or 8 percent, fever agree of owl habitat at year 10 and 71,000 fever agree at year 50. Similarly, there is a +percent reduction in old-growth after 10 years, 8 +percent reduction in old growth after 100 years, and a +percent reduction in \*block\* of habitat in 10 years)

\* Do not protect home-range size areas (Category III HCAs) for all currently known and future pairs of spotted cwle in the Dregon Cose Area of Concern, r Dar

Do not adopt the 50-11-40 rule but instead describe management that will delay, for 40-80 years, the development of forcest erand conditions which meet the dispersal standards set forth in the ISC Strategy. This results in 385 feer quarter committies meeting the 50-11-40 rule at years 30-40,

Somehait timber harvess on 13, 000 erres within NCMs. The scenario purificity of entry of the scenario purification of exitable halfstars for the scenarios of the

and whether monitoring will result in appropriate adjustments to

2

#### Visbility Rating and Mitigation:

Turbuiry Maxing MAX Highers) Transmitter the semificances will fifter the visibility of the semiface means the semificance of the fifter the visibility of the semiface means the semificance positions of the semify, when it is non-positions of the semificance position for means the semificance of the semificance and positions of the semiformer of the semificance of the semificance rest of the semificance position of the semificance of the semificance rest of the semificance position of the semificance of the semificance rest of the semificance of the

#### Recommendation

The Forest Service and RLM are currently working on TLF's that include management strategies for the northern spotted of wire recommend (1) that the SLM doors a strategy for managing the morthern spotted of wiren is consistent with the TLC Strategy and/or the Recovery Flam, and (2) that strategy be incorporated into the Recover Relaxed.

#### 2. MIRA-Related Com

Since all of the RMP'e/EIS's are mimilar, commants apply to all of the documente

A. Documents seem to be well written, easy to understand, and have all of the parts mandated by the CBQ regulations for implementing NSFA 140 CPR 1500-1500). They elso make good use of maps, charts, graphie, and pictures

3

ments are set up to make a wide variety of decisions. much the way 3. Decompares are set up to make a vide versity of decisions, much the system Formst service did during the first round of Forest Faired Fain development. With a purpose and med of providing a "... Comprehensive Interesting to the service of t

C. The decomment movements of the interval of the state and a set in the interval of the state interval of these things out

D. The HIS's discuss affects on global climats. We have taken the approach to dete that this is outside the coope of our analyses and that there is too little information evailable to provide a resonable estimate of effects

3. Timber Modeling and ASQ Celculation (Selem District Draft Resource Management Play

The methods used to model timber are discribed in Chapter 2 and Appendices  $2 \cdot A$  to  $2 \cdot b$ . In general these sections are well organized, clear, and connise. The methodology for estimating sphyrical yields, projecting there yields, and assigning timber hervest methods and silvicultural treatments for a given alternative appear logical and sound. The explanation and rationals for the genetic 'tree improvement' program is written in terms that the general public should understand.

Appendix 2-D describes the Best Management Practices and the classification system used to identify unouitable and restricted ground. The recommended precises for sech classified area are also clearly explained. There is no table showing its acreegs within each land classification, however. This table would help the reader determine the significance of these restricted There is no

#### 4 Forest Seat Management

#### A. GENERAL COMMENTS

 We are impressed with the change in explosic for BLM management that these Resource Management Plans indicate. In general, the plans appear to be genuine first efforts to develop comething approaching a represent "business as usual." do not

2) The documente ere quite well organized and obviously represent a great deal of work

31 In our opinion, the practice of defining a propriet or concept at 3) In our opinics, the practice of defining a program or concept at the bayinging of the documents and subsequently using an ecromy, or only the initiale of that program or concept is confusing, needlessly obscurs, and actreanly anonying. It would be much better to avoid these kinds of shortcurs slogether. Dee of the fully spelled-out words would make the documents guid nore readable.

4) The documents need editing. In particular, the spaling of examilies news should be checked horoughly. For example <u>public</u> and the state of the state of the state of the state of the spalid "philling" several taxes in the Assetup District Plan. Also, references need to be checked. Some that appear in the texts are not listed in the respective Maircence Gitted sections.

B. SPECIFIC COMMENTS BELATIVE TO VEGETATION/INSECT AND DISEASE MANAGEMENT

1) When referring to competing vepticin manapenet, all Resource Management Flucks are Lifed to Baile 3198 151, <u>Management</u> Casani Management and Competing Vegetation. Notices west preferences are listed to 1819 Replacement, and Neend of Devision, to the 1946 Approximation of the State State State State State State Approximation and We bailewer that the documents to which they are being Listed are of god quality.

2) In our opinion, none of the Resource Management Plans adequately addresses insect and disease concurns. Coverage is superficial and vague, and the plans, as written, atrongly imply that insects and diseases are not important. We are particularly concerned about the diseases are not important. We are particularly concerned about the section of following points

d) Deress and Sicomes are not noticed in any invest or merces. Forset ALD, is activated any sequence of the second sec

The howest scheduler and participations for this part is part to a set of the scheduler of the scheduler is part of the scheduler is part of the scheduler is part to the

For Alternative D only, a data base model was used to snours that the 50-11-40 requirement for epotted ovis was not. We recommend that you expand this model to include other "examilative effect" factors which may separd this model to include other "considering effect" factors which may link your horever level is the contrag discde. This model could enclusive the contrag decode (a) and be used in conjunction with the TXIN-FILTE model. Literatively, a short-term literator programming model HDFFLAD words. Could be used to determine the potential harvest acreege by subserse and type in the first for decades of the plan.

incort and disease impacts. Some of the proposed management changes will affect insect and pathogen populations profoundly.

We believe that eignificant insects and pathogene should receive We believe that significant insects and pathogene should receive treatment estimation or planning considerations under at least the "timber production practices" issue raised in sli the plans. Specifically, lasticeted root rat and Douglas-fit beetis schoold receive coverage in wetriche plant being wetrig schoole and the state of the school and the sect schoole Annihilate root disease, and annows root disease should be addressed in the Kishath Falls Recourse Arms plan. They are discovered in the school he addressed. disease should be addressed in the Klassth Falls Recourse Area plan. They are discussed in the draft but should be addressed in uch greater deteil.

b) Nauyo iba pilaon sefer to inserts and diseases as "natural components of the acceptore and serve to party hai, under that resource, there is little end to acceptore and acceptore and components, to are if rese, vegetation that compare with treas, animal the contains treas, hereity entoide study, etc., animal the contains treas, hereity with the compare with treas, animal the contains treas, hereity entoide study and for the contains treas, hereity entoide study and for the contains the contains the study of the study of former to the compare traditionally actempt to infinite manager should how the comparements of the source. b) Many of the plane refer to insects and diseases as "

c) The plane repeatedly indicate that control methods will be c) The plane repeatedly indicate that control methods will be applied to insert and pathogamilt large outpress develop. We believe this is a poor way to manage lasect and disease. The preferred wethod of emanging populations of insert and pathogamiltanes of insert to applied to a start and pathogamiltanes of insert and pathogamiltanes of the start increases, is our preferred method

d) The plane address the need to practice very intentive formery on arease blong macased primity for the transper production objective. Thinking, use of genetically superior planting ecode, coppiling very station management, etc., is a devocated an amthods insects and diseases throld be included an important methods for reducing independent provides and morthality.

e) Effects of insects and diseases on management objectives other than timber production are hardly mantioned at all. At the very least, the potential impacts of insects and diseases on these objectives chould be cutlined and estimated.

f) Three documents do not contain an accepted definition of "formet health." We consider a desired state of forest health is a condition where biotic and abiotic influences (i.e., insects,

diseasee, atmospharic deposition, fire, silvicultural treat inte, diseases, atomphoric deposition, fire, silvinoitumal treatments, harvening parcies of some diverse neopyress previationality more are in the forum. Other definitions maint, All the hif piece refer to ingrived and genoring forces bailt, Marven, most of the piece support that various activities (used at relations) that piece support that various activities (used at relations) there is no way to jobs whether such research have any manning. We support analy, charter definitions to despited the source despite analy. Control despited despited there is no way to jobs whether such research despited not prevent and the source despited despited despited at the source of the source despited despited despited at the set of the source despited despited despited despited at the set of the source despited despited despited despited at the set of the source despited despited despited despited at the set of the source despited despit used in all the plans.

5. Rural Interface

United Status Poraet RO Department of Service Agriculture

Reply to: BLM Draft Plane

Date: 12/16/92

#### Subject - Dural Interface

To: Director, Land Management Planning

The purpose of these currents is to aid in the response by the Forest Service to the Bureau of Land Management Draft Resource Management Plans for the State of Orego

The Sureau of Land Management Draft Plans for each of the districts in oregon are tissed to the Madford District Draft Management Plan on the issue of Rura. Interface, Rural Interface is an issue that has been identified as affecting decisions of index1 and state agencies in formulating land management goals. decisions of faderal and state agencies in formulating fand management posis. Thosy from the draft samagement plans on hurst intersites states that if a function of the samagement of the samagement of the samagement of the cursuited or have a greater cost. Nationwide, there are changing exclisi values. The overall increase in population is a primary factor. This increase is coupled with a miffs in the rural portions of states from those families that samade a living directly from the land to the families that changes to reside and samade a living directly from the land to the families that changes to reside and samade a living thereby from the land to the families that changes to reside and samade a living the land to the families that changes to reside and samade a living the land to the families that changes to reside and samade a living the land to the families that changes to reside and samade a living the land to the families that changes to reside and samade a living the sama to the land to the families that changes to reside and samade a living the land to the families that changes to reside and samade a living the sama to the sama to the sama to the same to reside and samade and the living the same to reside and the same the same to reside and the same to reside and the same the same to reside and the same to reside and the same to reside and the same the same the same the same to reside and the same to reside and the same the sa the rural setting without a tim economically to the land bass. Taken together, the social value system for rural areas has shifted.

The difference between the forces forcing and the bornes of Lord Management on the trans are relative af the mission for each approxy control to the Forces Service mission is the force on the peptie diverset and the trans here the Management of the force of the service of the trans the period paragement of the service of the service of the trans the service management of the service of the service of the service of the rank of the service of the service of the service of the service service of the service of the service of the service of the service service of the servi analyeie

#### Analysis Methods

(G

(III)

The analysis is based on the premise that conflict between the agency and the public is directly related to distance of management activities from residences. Potential lot size along with the distance from the property bundarics is them used to develop the degree of potential conflict to land management activities.

This is too simple to reflect the complicated interactions within the Rural This is too simple to related the complicated interactions within the Nuril Interfact. As extend in the downeem (th ):133; counties of forces at running large lot size have been unnucessful in facilitating public land management activities. Conflict still occurs regardless of distance. Abilio involvement, type of activities, history of relationships, and timing of activities also play a role in estimating the degree of conflict.

9. Comments from the Siuslaw National Forest (Selen, Eugene and Coos Bay District Flans)

United States Department of Agriculture	Forest Service	Siuslav National Forest	4077 3. W. Research Mey P.O. Box 1148 Corveilis, OR 97339-1148
United States	Forest	Siusiaw	DEC 0 1 1000 4077 S. H. Research Nev

Reply to: 1920/1950

Subject: Review of BLM Resource Management Plans by Sluslaw National Porest

To: Regional Forester

Me have reviewed three of the BLM Resource Menegement Plans and Environmental Inpact Statements--Salam, Eugene and Coos Bay Districts. This review has been coordinated among the expropriate Renger Districts whose comments ere attached.

The overail impression is there has been excellent work on developing planning procedures and describing the work in very readable KEPA documents. We are gled to see the BLM has adopted an ecosystem management objective for the Preferred Atranetive and has done an advinable job of publicizing that intent.

The BUt and Forest Barries are presently faced with very limit in teach that the second second second second second second second second table is a second second second second second second second second protection of setro tables and the resources. Revery, the two specifies because protection of setro tables and the resources. Revery, the two specifies because protection of setro tables and the resources. Revery, the two specifies because and the resource of the resources are the resources and the resources are protection of setro tables and the resources. Revery, the two specifies because and the resource of the resources are the resources and the resources are to the back Reope vill resource conclusion if it want to resch second come points for counter back and the resources are the resources are the resources and the resource of the resource of the resources are the resources and the resources are the resource of the resource of the resources are the resources and the resources are the resource of the resource of the resources are the resources are the resources are the resource of the resource of the resources are the resource

Some of our concerns releted to inconsistent approaches to managament include the following:

The new appears difference in the the latter W red BA will be a set of the spectra of the spect

2. The Select District points in General Responses Area (SRMA) would strength of the Select Production with traditions with a 70-100 year container, Advects harvest units, reforestation with generically inproved sendings when evaliable, familization of all withous strends, preact best firs for site proparation, when needed, which is transformed painting backs and refore compiling vegetation.

Landowser surveys within the New-Industrial Private Freest (MEYF) concerding proop, secondly popleted by Wahington and organy, minitated that had a this of these individuals (s high. Forest Service progress Scoused at schucing good load streakeding by the landowser has had good acceptione. East regarding the streakeding by the landowser has had good acceptione. These regarding willingues to manage their lands for composition. These results are not consistent with the distance/routicit theory of the largend by the disagement.

#### Conflict Avoidance through Buffering

The conclusion from the analysis is that if Federal lands are buffered with The conclusion from the subject at that it has no high a particular methods and the subject at the subject at the subject at the subject at management spectre. This is not a likely result. It would be note appropriate to consider a discription in deline with conflicted at this state that conflict a particular subject at the subject at the subject at the building a public involvement process tax gains consense on the shyeotive...

Direction to Counties on Secondary Lands

The State of Gregon has given new direction to the counties mandating that they designate the Secondary Forest Land Zone by Jawary 8, 1993. This will reduce the number of potential residences. Any allocations by the Sureau of Land Kanagement bhould be reflective of this change.

#### Forest Service Objectives

There have adverte the sense is the set in the set interface are to implement the pilot graves by the together is not the the set interface are to implement the pilot graves the pilot the set interface and the set interface interface and the set is the set interface and the set interface interface and the set is the set interface and the set is the province of the set is province of the set is the set is the set is the set is the province of the set is province of the set is the province of the set is the province of the set is the the set is the the set is the the set is the the set is the set is

The Sistlew M' is currently exploring new very of example timber incost 50 be accurresponsive to accurate management of activities the strength support is an to leave some large, live treas in Anarvest recease leavel diversity and to han to to seve one large, live treas in Anarvest recease. Is evide anourage Exit to acquiore acciding to accurate the forest leads for diversity and to accurate years.

to stream condition. This of fish hebitat management

More specific comments related to the Coos Bay end Eugena Districts are included in the attached latter from the Napleton Ranger District. Some specific comments about the Salem District RMP are:

Designation of an ACEC on Marys Peak is consistent with our established Marys Peak Special Interest Ariae. We would encourage some coordination on portatila trail developments and any recreation developments planned for Parkar Creek.

 The Corvelils-to-the-See trell plenning effort is well underway at the Alsee Ranger District, but the Sales District ElS indicates that trall is not included in the preferred elternative (Table 2-5). We encourage BLM to include the preferred elternative (Table 2-5). raccoulder that proposal.

eve any questions about these comments, please contact Harriet Plumley If you have any quest (750-7079) or myself.

Juin puril

Acting Forest Supervisor cc: R.Lewis, RO-PE&A

Enclosures (2)

Waldport Ranger District P. O. Box 400 INITED STATES Forest DEPARTMENT OF Service ort, OR 97394

Reply to: 1900

Subject: 'Selem District Resource Hanegement Flen

To: Forest Supervisor

We have restricted the folse fitting theorem Weingness Ham and Twirtenanti I specer Strainsmith of major conflicts with our Point's Ham. In partial specer have bain of a special special special special special special specer have been been been bained by the special biological persenters, mobile of sampling the special special biological persenters, mobile of sampling the special special biological persenters, mobile of special special special biological persenters, mobile of the special special special biological persenters, mobile of the special special special biological persenters, mobile of the special special special biological special special special special special special biological special special special special special special biological special specia s two concerns ers reised for us.

Date: November 17, 1992

The first concern relates to access across NFS lands. Upon inplementation, ALM will have expectations to utilize or develop access across lands we mange. Since thay would be following different parameters, it is possible that propessis for access may be inconsistent with the Final Environmental Imput Statement on Kamagement for the Northern Spected Ool in the Mational Porests.

We are also concerned that by following different conservation efforts on listed spacies our ability to plan and implement concervation/recovery afforts will continue to dolayed. This base sample is the affects of the 'dod Squad' findings have had on both planned mains and ecospience of the IIS for conseguent of the northern spected out.

I believe their finel BIS should recognize that adjacent lend eanegment agencies are following different strategies for managing listed species.

Comp J. Frisch District Rangel

Cering for the Land and Serving Paople



784 United States Department of the Interior RUREAU OF MINES



January 4, 1993

FE-8200-28/7-62

WESTERN FIELD OPERATIONS CENTER EAST 360 3RD AVENUE SPOKANE, WASHINGTON 9202-3413

JAN G L. Durenu of Land Server .....

Kenorandus

District Manager, Bureau of Land Management, Selem District Office,

Chief, Branch of Engineering and Economic Analysis

Connents on the Selem District Dreft Resource Management Flam and Environmentel Impact Statement (RMP/EIS)

The Burees of Mines is very concerned over the definition used to desig The Barkes of Kines is very concerned over the definition used to designate mineral potential in this MOVIATI. In features it of Table 3-27 (p. 1-01), the law potential definition on month of the single state of the single state is fact that associate the state of the single state of the single state error which weak unjective exclude potentially miseralized areas from four-semination alongly because these hese han on percente discover for the exclusion discover of the single state of the single state of the single state exclusion of the single state of the single state of the single state of the single state exclusion of the single state of the si

The number of mineral commodilies identified within the Sales District and listed on page 1-74 of the document supports there we raise waited year indexis doped types of the document support to the same state of the state of the same state of the same state of the same state of the state of the same state of the same state of the same state of the state of the same state of the same state of the same state of the state of the same state of the same state of the same state of the state of the same state of the same state of the same state of the state of the same state of the same state of the same state of the state of the same state

We believe it is critical that as much land as possible remain available for future exploration and possible development. Classres to missrel entry much be carefully considered. This includes not carefully classre of the land on which the deposit is located but also sites of critical access routes into potentially marchined meral.

In light of the resity of economically attractive nimeral locations and the inconsequential imports of chining, considering successful reclamation techniques used today, multiple ind use concepts demand consideration of mining stivilies above other resources in almost every instance.

Berty Book for John R. Norberg



785

X-045 ---ve & Subest P

December 21, 1992

D. Dean Bibles State Director Bureau of Land Management P.O. Box 2965 Portland, OR 97208

RE: Draft Resource Management Plan & Environmental Impact Statement

SALEM, OREGON 97310-1347

Dear Mr. Bibles:

I appreciate the opportunity to comment on your draft plan; however, I am skeptical of the impact public input will have on this draft.

Los last. The proceed iterative in the writes EU test i At look the proceed iterative the inclusion of the second second of the inclusion of the inclusion of the inclusion device the accessic writers of origon and the attoin. Cretality, definit tax dollars to maintain set solds wills recording productive loads for recentional purpose. Bowers, it is clear productive loads for recentional purpose, Bowers, the solar productive loads for recentional purpose. Bowers, the solar productive loads for recentional purpose. Bowers, the solar productive loads for recentions of the solar bolic involved productive solar of the solar bolic involved transmission of read values decreased bolic involved of read values decreased and load any invoc.

I would like to see a speak daal more public involvement in this planning process. I would like to see these deviations driven by public opialon in the part of Greegon that will be harmed by the deviations. The ourset approach apparts to neet an gende free our of the region or out of state. These public lands have been fills ton year plan will have a single impact on our state's sconey and desrvee a thorough public study, impection of data, and complete the splain of these incest to be resource.

Sincerely.

Jelna

Delna Jones State Representative District 6

Appendix II-29

BARBARA ROBERTS GOVERNOR



OFFICE OF THE GOVERNOR STATE CAPITOL SALEM, OREGON 97310-0370

TELEPHONE (503) 378-3111 December 18, 1992

RECEIVED DEC 1 8 1992 Bureau of Land Management Salem, Oregon

Mr. Van Manning, District Manager Bureau of Land Management 1717 Fabry Road, S. Z. Salem, OR 97306

Dear Van:

Reulead you will find the state of Gregorie final Goodiased Reports to the Salen District of saft Resource Management Plan and Evi Tompental Impact Extensit. We have also attained copies of Sale Salen Goort The Sale Saren Salen Salen Salen Salen Salen Salen Salen The Salen Sa

I encourage your District staff to feel free to contact the Governor's Forest Planning Team to gain a full understanding of specific concerns and recommendations that we have outlined in our response.

I thank you and your staff for the field trips and discussions afforded the Govarnor's Porest Planning Yeam over the last year. We look forward to continuing this cooperation with your District. If you have any question about the State's final response, don't hesitate to call.

Sincerely,

Annell Squier

Anne Squier Senior Policy Mivisor for Natural Resources

## TABLE OF CONTENTS

			Par	29
XEC	UTIVE	SUXM	ARY	i
Ι.	INTR	ODUCT	10N	1
п.	M2.70	R TSS	URA	2
	λ.	Ecos	yeten Management	4
		1.	Concepts and Principles	4
		2.	Goals of Ecosystem Management	5
		3.	Consistency with Legal Mandates	5
			dia Authority	
		21	state's Reconsendations	0
		5.	Summary	8
	в.	Land	Use	8
		1.	Rural Interface	8
		2.	Federal Consistency	0
		3.	Land Tenure	1
		4.	Navigability	2
	с.	Fish	and Watershed Nanagement.	12
		1.	Fieh	.3
		2.	Water Quality and Quantity	.4
		3.	Water Quantity	16
		4.	Watershed Management	6
		5.	Riparian Area Management	.9
		6.	Wetlands	23
		7.	Sunnary	2
	D.	λir	Quality	23
		1.	PN10 Nonattainment Areas	13
		2.	Prevention of Significant Deterioration	13
		3.	Visibility Protection	14
		4.	Sunnary	:4
	Ε.	Tour	ism and Recreation	24
		1.	Regreational Tourism	5
		2.	Dispersed Recreational Derand.	8
		3.	Wildernees	2.6
		4.	Traile	27
			Developed Requestion Sites	12
		6	Wild and Granic Divers	12
		7	Off-Road Mahiglas	10
		÷.	Carrie Wieburge	12
		0.	Sound Algheeys	10
		78.0	TRANSPORTENT AND A DESCRIPTION OF A DESC	

THE STATE OF OREGON'S FINAL COORDINATED RESPONSE

TO THE

BUREAU OF LAND MANAGEMENT'S

DRAFT RESOURCE MANAGEMENT PLANS

AND

DRAFT ENVIRONMENTAL IMPACT STATEMENTS

Governor's Forest Planning Team

III. IV. December 1992

7.	Timber Management3	ı
	1. Forest Land Management	2
	<ol><li>Land Suitability</li></ol>	¢
	<ol> <li>Growth and Yield Assumptions</li></ol>	i
	4. Forest Health	ŝ
	5. Timber Supply	б
G.	Wildlife Management	,
	1. Deer and Elk Mahitat	,
	2. Spags and Dead-and-Downed Wood 21	ŝ
	2 Consistive Threatened and Enderseved	2
	Species	ľ
н.	Old Growth	
		'
Ι.	Livestock Management4	ł
з.	Minerals and Energy4	ŝ
к.	Socio-Economic4	l
	1. Socio-Economic Conditione	\$
	<ol><li>Community Stability</li></ol>	
	3. Social Impacts	5
	<ol> <li>Recreation/Tourism Industry</li></ol>	ŝ
	5. Monitoring	ŝ
	6. Summary	j
L.	Road Management	L
м.	Special Plant and Tree Speciee	2
	1 Constal Observa Blank Annota	
	1. Special status Flant Species	1
	2. Iew bark	ľ
Ν.	Tribal Concerns	\$
٥.	Standards and Monitoring50	í
Ρ.	Budgets	\$
DRAFT	PLANS OPGANTENTION	
		1
PINA	COMMENTS	ł
#### EXECUTIVE SUMMARY

The Governor's formet: planing Team has Completed the Final Constituted Resources to Running Team has Completed the Final management plana for the Repear, Relation Marcel Management plattices, and the Kinakty Final Resources Area. Preparations of the Argumented Reports as part of Governor Roberts' commissent to be appressed Reports as part of Governor Roberts' commissent to be appressed Reports as part of Governor Roberts' commissent to be appressed Reports and the Resource Area. Understanding Signed Retwees the Rete, Surgeau of Land Management (60) as at the Sinted Sizes Forces Review of Land Management

Key issues addressed in the State's Final Coordinated Response to the six BLM plans are summarized in the following sections.

Experien Menagement. The Picke endorses BL/s overall associates and the second second second second second second manage that indice applicable to the second secon

Land Los. Land use conflicts between BLM and rural interface residents have increased over the years. The State recommends that BLM become more screased block land use planning. This means BLM should actively participing togond's statewide land use planning program by coordinating its efforts with various state agencies and local governments.

Eich. And Fitzeränd Kanagemant. The State supports Hufe grategy to smapped modeling y malytical verthads, where pully and quantity, first and uldiid Mabitat, end weilands where conditions have been deerling in the state of the state stocks must be protected on EU-deministered links. Different protect ripping areas and anotarco conditions over time. Comparison between landoware is essential utilin multiple contrained to anotarco the desired conditions.

<u>Air Quality</u>. SLM plans should more specifically address how the proposed increase in use of prescribed burning will nest state and federal signality standards. Continued cooperation between the State and ELM regarding air quality is encouraged.

i

Back-mannalic. BAYS safe plans have not surgiciantly defined the Social and concell splitstices of their preferred alternative on Oregonians. BM needs to more specifically address because the social statement of the statement of the concentrating on the social plans. The social-social conditions further weaksted. Monitoring of the social-social conditions defined.

Read Management. The State recommends that each BLM district dewelop a comprehensive road management plan. The plans would be used to manage access which in turn would improve wildlife habitat, water quality, and recreational opportunities.

Spacial Plant and Tree Spacies. BLM should expand its inventory of sensitive plants and implement standards for protection including zonitoring. BLM should aggressively follow the interim management plan for managing Pacific yew.

Tribal Concerns. Lands administered by many BIM districts were used by Native Americans and contain historically significant cultural and spiritual sites. The State ballewes BIM should identify, during project planning, thase sites and protect then during inplementation of management activities.

Bandards and Monkaring. The implementation of biological investivy by Net Vill mandate is comprehensive monitoring program, including a declared funding course. This is critical in socceptions, specific symptotic further could lines are being computing, specific symptotic further could line are being computing, specific symptotic further could line are being computing, specific symptotic further could line are being computing and specific symptotic further could line are being of the total monitoring package. The State seconsend the Sup irrangiant line technical and counciloring program in the final plane.

Budgata. Adequate funding is essential for implementation and monitoring of BIM's Biological diversity strategy. Dedicated funds for expanded intensive management programs being proposed are henced. The Back belowee that BIM budgats should not be macassarily linked to alloweals sale quantity levels.

Detailed State Final Coordinated Response. Questions regarding the State of Oregon's Final Coordinated Response should be directed to: Governor's Forest Planning Tsam, 155 Cottage Street, Salem OR 57310, Fhome: (503) 378-8127 During and Barranign The Steis recommends that BiM expand recreational opportunities on its lands. This would include increasing/expanding developed relations and include disperced recreational opportunities, building additional training and protecting scenic quality along state/federal highways and Wild and Scenic Pivers.

<u>History Management</u>. While the deals supports BLM's new biological diversity separate, and experision set of the second anticipated from various land allocations. In particular, land and yield assumptions any not set the timber volume support lands within the timber base. Increased dependence upon intensive management practices to produce the predicted illuvable sales und southering. The comparised by etable funds for implementation of the final plans. Sales have build as more adequative indexed.

Bildits Magazami. His needs to more explicitly explish how they insufe to prove bhits: cover, forese and cod enangement, for dest and all. By should further protect other vilidity, supports the orestion of older stand conditions them in proceed allvialized from the stand conditions them in proceed allvial movery find for the forther spotted out and continue that movers find for the stand conditions of and continue comments on the set way to provide for the recovery of the northern spotte out of and norther threatened and dangered species.

Old drowth. But districts are proposing various techniques to minishi/yotose older-eged forests. The State supports Hird overall approach to minish and protect old growth stands through blogical diversity. Old growth-degender species must also be allocation through landscape diversity in general forest land allocation through landscape diversity in general constants, older

Livestock Rangement. The fitter recommends that BUM develop detailed allocant nangement plans for every grating allocant. of concern is livestock's impact on fish and wildlife habitst, big game, and ripsinan-dependent species. The State encourage range improvement projects to increase forage and water developments which should heng furb livestock way for our riparian areas.

<u>Minerals and Energy</u>. SIM should acknowledge and preserve access to state-owned mineral rights. SIM should further recognize the value of sineral and energy resources when making land management decisions.

11

STATE OF OREGON'S FINAL COORDINATED RESPONSE TO BUREAU OF LAND MAIAGEMENT DRAFT RESOURCE MAIAGEMENT PLANS AND DRAFT ENVIRONMENTAL INFOLT STATEMENTS

I. INTRODUCTION

The Bureau of Land Manapasent skinisters 3.5 million scree of load. In western Gregos including parts of Klassth Courty. In Land has in western Gregos including the second screen screen Linker percention, grazing, and linkel are just seen of the resources contribute millions of dollars ach years to Gregos Counties for schools and reads. The isportance of LiM lands to the people of court-spheric screen scr

Recognizing a need to continue state responses to federal resolutes management plans, the state responses to federal vas created in 1987. This team, weint is forset planning fean from twelve state agencies, has worked occepter over the last flve years to develop coordinated responses to major federal land management planning documents.

Kast recently, the doverner's preset planing them has used of closely with two BJ districts (modern) and a measure, been by add numeral, one Recourds Area (Chanch Paile) and the Fase planning presents. The staffer to before understand hard postared throughout the state to molici input on BMFs dard postared throughout the state to molici input on BMFs dard protection of the state to molici input on BMFs dard from the public, state species, and creans the state to hister in the state to hister built the hasks for the index's final response.

The following document is the Sector of Orsegnit pinal Coordinated Mesponet to the six dists Resource Meansate Diana (Data Invironmental Impuct Statements (ISBs). The State's final and Environmental Impuct Statements (ISBs). The State's final state Response represents a concollated response to the six distants May districts/resource area. Individual state to specific lises by districts/resource area. Individual state to specific lises by

Ve appreciate the coopertion that BW districts the signature Fails Resource Area and the State office Average of the State Team in understanding the planning process. This kind of working develop resource mangement plane sociptable to Gregoniane and the Ration.

#### II. MAJOR ISSUES

A. <u>Ecosystem Management</u>. How will BLM implement ecosystem management that responds to Creating sustainable, productive, and healthy ecosysteme while still producing goods and services?

B. <u>Land Dig</u>. Now can BLM better address problems encountered in managing rural interface areas? Has DLM net the federal not and creating of Coatal Done Management Program? Has land tanure been adequately addressed? Now has State ownership of surface/mburgicac coversibly rights been handled?

C. <u>Fish and Watershed Management</u>. Now will BLM use analytical vatersheds to measure cumulative effects of management activities? How will riperian areas and wetlands be protected? How will fish habits be protected and enhanced?

D. <u>Air Quality</u>. How should BLM address the use of prescribed fire as a forest management tool in terms of the potential impacts on air quality?

E. <u>Tourism and Recreation</u>. How should BLM manage for recreation, vieual resources, and Wild and Scenic Rivere?

 <u>Tisker Management</u>. Are BLM's timber growth and yield assumptions valid? How will silvicultural practices be used to support projected harvest levels? Will BLM be bit to produce the harvest levels predicted by land allocations? Has BLM adquately addressed forcet health?

G. <u>Hildlife Management</u>. How should BLM districts manage for big game habits? What snag levels should BLM provide for cavity-dependent birds and other wildlife? How should sensitive, threatened and endangered wildlife species be managed?

H. <u>Old growth and Mature Porest</u>. How will BLM manage its foreste to maintain old growth and mature forest composition?

 <u>Liventock Hanagement</u>. Now will BLM nanage its grazing lands to produce forage for livestock and wildlife while protecting other resource values, in particular riparian areas?

--DISCUSSION OF MAJOR ISSUES---

 Ecosystem Management. How will BIM implement accession management that responds to creating sudtainable, productive, and healthy cocystems while still producing goods and services?

#### 1. Concepts and Principles

Managing lands and resources based on ecological principles has been serving as a new view in electific literature, research, bloggically cound, but is no prove attuned to public expectations and values of doing a better job et assigns our ratural under a system compet which hurides people, animale, soils, plants, water, climate, with the processes of nature vorking longities as whole.

The concepts presented in this section and in the State's paper, titled, <u>Romystems</u>. A Coordinated State Rescores on LMCs Rescurse searches, field trips, and discussions vith researchers and land managers on defining principles and implementation strategies for acosystem Ranegement.

The Statishilows that the mining principle of computer sampsent is to create a nor ecologically usatishil productive, healty, and resilient neutral ecosystem. Now to not this objective, is a computer leader that the sample of the traditionally managed our resource lands. We balker that change my be additioned through the careful application of ecosystem

The Burewards Oregon and failformis Malload Grant Act (Of Act) and the referring Land Policy and Management Act are the two major places of legislation that govern the management of LNL and in management constraints, management approximations, and productions of those scoretes removement approaches, and productions of these scoretes removement approaches, and productions of the score the score term of the score term of the score ords in this wave-changing activity of colored productions of the score term of the score term of the score term of the score ords in this wave-changing activity of colored productions of the score term of term

Another lew which has influenced management on not only BLM lands but other federal, private and state lands is the Endangered Species Act. This Act requires the procection and recovery of epacies detarmined to be endangered or threatemed, regardless of other legal andates. J. <u>Sinerals and Energy</u>. How should BLM recognize and manage its mineral and energy resources?

K. <u>Boole-Reconceic</u>. Now will the adopted plans affect economic opportunities in surrounding communities? What impact will the plane have on socio-scenonic stability in the planning area and statewide?

L. <u>Road Management</u>. How should districts/resource areas manage their road networks to promote compatibility with resource uses?

 Special Plant and Free Species. Now should BLM protect special status plant and tree species?

N. <u>Tribal Concerns</u>. How should BLM districts protect traditional Tribal cultural and spiritual eites?

 <u>Standards and Konitoring</u>. Does BLM have measurable standards and a comprehensive, aggressive monitoring program to determine whether plane are meeting short and long-term expected future conditions?

P. <u>Budgats</u>. What budget will BLM districts need to carry out the preferred alternative? How should the districts react if a smaller budget allocation occurs?

#### 2. Goals of Ecosystem Management

The State's comments on BIM's biodiversity strategy are based on the following five objectives:

- a. Maintenance and restoration of biological diversity at four levels of organization; geographic scale, genetic corposition, communities and ecosystems.
- Sustainability of components and processes of acceystans over time and long-term productivity and resiliency of such acceystans.
- c. Contribution to the basic needs of people and communitias who depend on the land for subsistence, livelihood, and social and spiritual development.
- Consideration of censitive ecosystems such as wetlands, riparian zones, and fragile sites.
- Provide consistent linkage between forest haalth and ecceystan management.
- Intensively monitor and evaluate implementation of biological diversity to determine if short-term goals are leading to long-term expected future conditiona.
  - 3. Consistency with Legal Mandates and Authority

Det sampas de percent or fut lond in werken Orwen/Klamath Bulla Basérie des moder ha Bwerend Orgen du Callorni Ballroad grant Act (OKE lands) and Cone By Wagon Read (CRMR) land. The remaining is percent ar referred to as Pholic Dosahi lands sampage inder the direct authority of the Fe balls for and lands have different legal mandations on how they sould be annoped. Eith he stated in its prelinary planning dosuments that it would make planning decisions contextury the that are sould be annoped. Eith he stated in its prelinary planning dosuments that it would make planning decisions contextury the that are sould be annoped.

While it is conceiveble that, with the requirements of the Clean Nater Act, the Clean Air Act, and the Endangered Spocies Act, Public Domain and G4C/CHWR lands could be managed. The andrates are is not cavious that they should be so managed. The andrates are beneficiarily and, the beneficiaries of these approaches are different:

BLM draft plans have not explained the rationale on how their biological diversity-based prafarred alternativas are consistent with its legal mandate for OK/CEWA lands. The relationship between the preferred alternatives' ecosystem management concepts end axisting laws governing the management of OSC/CEMR lands need to be clearly articulated in each final plan.

#### 4. State's Recommendations

Biological diversity principles used by BLM in developing their draft plans represent a holistic approach to managing resource lands. We commend SLM on this effort.

The State's comments on biological diversity, found in the draft plans, are based on principles found in our position paper (Appendix 1). These principles are described below.

- a. Expected Future Coadtion. Bit RNFs should identify and examine the expected future condition for biological diversity. Expected future condition gains about a relate to account of the state district and to express in greater data in whith the expected future conditions will be from implementing the preferred statematives.
- b. Presentplies. SQTP should include specific, mesurable presentplies or standards which when inplemented would work toward secting the expected future condition. While prescriptions are part of each draft plan, it is not clear how they will meet the biological diversity short- and longterm quals.
- d. Research and Mdaptive Management. The RMPe should datail how SIM plans to integrate management, monitoring, and research to continually opply adaptive management and improve the scientific backs for ecosystem management. This has not been sufficiently addressed in the drate plans.
- a. Zoosystem Monitoring. RMPs should include specific monitoring questions for measuring whether management prescriptions are meeting the expected future conditions. For example, is forest age class distribution within e cortain forest allocation moving toward or away from the

and activities of these agencies. BLM plans should explain in more detail how they plan to coordinate their biological diversity program with adjacent landowners and more broadly on a landscape level.

#### 5. Sunmary

3. Summit: The state opplands BLF's biological diversity strategy as is related by the strategy of the strategy of the strategy of the relation of the strate is a biological strategy of the relation of the strate is a strategy of the strategy of the strate plan opelands is an experiment of the strategy of the strate (100-year) expected forms conditions. The stream over these, conducting the strategy of the strategy of the besigned conservation strategy of the strategy of the strategy is a strategy of the strategy of the strategy of the strategy is a strategy operation of the strategy is and strategy is a strategy operation of the strategy is and strategy is a strategy expected forms conditions.

Many questions remain to be answered by the ecientific community and lend managers on how to successfully manage lands using ecceystem monagement. ELM's ecceystem management approach will be very helpful in answering these questions over time.

a. Jawa Tawa. Nov can fit better address problems encountered in manufacture linerative resear. Mass Nut set the foodral consistency requirements of the Netlonel Costai Jone Mandement Act and Crescon Costai Jone Management Forstan? Mass land fanors been adequately addressed? Now has Faste concerning of warface/uburging conversion found to foot and the set of warface/uburging conversion found to the Institute of Martace/uburging conversion found to the marked of warface/uburging conversion found to the marked of warface/uburging conversion found to the marked of warface/uburging conversion found to the marked of the set of warface/uburging conversion found to the marked of the set of warface/uburging conversion found to the marked of the set of th

#### 1. <u>Rural Interface</u>

BLM has identified the management of rural interface areas as one of eleven major planning issues to be addressed by each district and the Klamsth Falls Resource Area.

The term "rural interface" refers to those areas where BIMadministered lands are adjacent to or interminyled with predosinately privately worked lands scoked and/or used for agricultural, forest, rural residential, end other resource and moresource purposes.

oving to the dome provinity of BU buildings with other lands and spinistics growth. It there examples and other public indowners are expected to experience increasing levels of conflict with neg mother over the sonopeent and use of their respective connections. expected future condition? BLM plans should integrate management, monitoring, and research to continuily epply convertes management. BLM districts need to develop are comparished to develop to management. BLM districts need to develop to comparishent of acomystem sharegement.

- Eccystes Departedsory. BLX operates under laws and regulations wich regulation production of goods and services of all types. People are part of, and are dependent on, BLX-managed eccysteres. BLX plans should describe hood and regional communities, groups, industries, stc., on ecceptuses within each land silocation.
- Threetened and Endopered Species. Both should reflect the special considerations BUK is providing for according to the second second second second second second second includes according to requirements of various recovery plane, as well as according second second second second second placed on the second requirements of the spectra of and providing for andronous fish. BUK has developed its strategy for the provide only and second second second the strategy is sufficient to sect the upcoming logal anddress is unknown at this time.
- b. Sitviout hang hereine. Lif plus should identify the sitviout hang hereines and the cause-and-setGot relationships which will lead to the goals of biodiversity/compites management. This includes guidelines of the site of the site of the site of the site of the outer site of the preseried first. BiA heresented see incovering the site of preseried first. BiA heresented see incovering the site of preseried first. BiA heresented see incovering the site of preseried first. BiA heresented see incovering the site of preseries of the site of t
- i. Coordination. BLX should clearly specify methods for coordinating biodiversity and coordinated space of with adjacent forest landowners. Specifically, BLM must coordinate with the Forest Sarvice and relevant stota spenniss to assure that activities to achieve regional/inducape biodiversity are compatible with plans

7

Takin cogether, the derif reformer plans state that rural interface contlicts effecting the sansgement of BM lands in Oregon are becoming greater, with the most ortensive problem results of this development in the vidicities over the last several years, particularly in southern freegon, have destroyed structures in rural interfect extens.

Statewide, BLM has calculated there are approximately 194,000 acres of BLM land lying adjacent to private lands currently zoned to allow development on 1 to 20 acro lots.

BLM's Response to Rural Interface Problems

The preferred alternetive in each district's draft plan conceptually treats the rural interface iceue in the same menner. Each district proposes to establish a buffer area on ice lands which lie adjacent to private lands zoned with minimum lot eizes ranging from 1 to 20 acres.

Nithin these buffer areas, BIN management activities would be altered where feasible to miliple of a pool and the second second second second second second second second second undertoken by BIN in the interface buffer include restrictions on public access, read building, harvesting methods and frequency, and application of herbicides and pesticies.

#### State's Recommendations

а.

ь.

The Stoke's review of BLM's internew stringy is based in the stoke string string string string string string Sancing Nucl Inforface Areas. transities to BLM for Gowerney Sancing Nucl Inforface Areas. The string string string Sancing Problem of rural interface areas involving BLM lands is a matter of critical Sanci concern.

The space calls upon BLM to enter into a special partmarkip with the fixes of oregons so that the zural interfaces problem can be addressed comprointively rether than in a fragmented, and a start of the start with the start of the start of the start of forestry and other squencies to deal with rural interface areas.

The Stets's proof contains als specific recommendations issed at achieving significant progress on various aspects of the interface product, including colled devicement, speny coordination, information exchange and conflict resolution. Unfortunately, after review of the six draft RNPs/EISs, it is disappointing to note that BLM apparently rejects a proactive approach described in the State's paper for dealing with rural interface areas.

The State believes that BLM's passive strategy of relying on uniform buffering of federal lands will do little to alleviate new inappropriate developments in runal interface states. This isplemy teffective forcest management programs on these interface lands.

The State urges BLN to incorporate the following recommendations, as described in the State's interface paper and the Department of Land Conservation and Development's comments to the RMPS (Appendix 2), into the final resource management plans.

- BLM should act consistently with Oregon laws, policies, and programs adopted to protect the State's forast land base for timber production and other foreat uses.
- (2) ELM should increase its participation in Despon's statewide land use planning program. This could be accomplished through establishing joint State and BLM working groups to further BLM's involvement in the statewide land use program and other related State efforts to address rural interface problems.
- (3) BLM'e State Dffice should provide policy guidance to districts for addressing rural interface issues.
- (4) BLM, in cooperation with the State of Dregon, should establish and apply a revised definition of rural "interface areas" which takes into account existing uses; current federal, state and local plane; and other land use feotors.
- (5) BLM should incorporate the rural interface issue into its agreement with the State of Dregon for monitoring the implementation of BLM management plans.
  - 2. Federal Consistency

These BW districts (blue, cross By, Lapres and Boseboxy) dohilater lack crossed under the Schein consistency requirement as provided in the Osestal Ione Management Act, Obset The Act, by General activity within or outlake the activity of the Schein Schein and Schein Schein records of the cossal area wat be schein schein ansmer which is consistent, to the assime schein fractionia, with the management program. The mandfory enforcement policies contained in the Drepto Costal Management Program acti

10

Second an In-Lieu Land colocking settlement has occurred between the State and KV viting the last year. The State, according to the Courts, is allowed to select 5,002,100 acres of DAX bublic Domain land. Our concern is the lask of sention of this settlement in the land Tenure section for the preferred within the requirements of the law. (Note Division of State Lands regresses - Appendix 1.)

Lastly, D&C and Coos Bay Magon Road lands that are suitable and available for timber production should not be exchanged for unsuitable or single use lands. These lands ahould be retained for forest production.

#### 4. Navigability

None of the draft plans acknowladge existing or potential State ownership Claims on mavigable waterways within BLM districts. Language, noted in Division of State Lands response, should be include in each final plan regarding mavigability.

C. Fish and Ratarshed Management. How will BIM use analytical watersheds to measure cumulative effects of management activities? How will riperian areas and wetlands be protected? How will fish habitat be protected and weblanded?

One of the Star's coils is to ensure that BUN performs and protocat signal-adopted and upland resources. This is consistent vith BUN's direction in the Paderal Land Management is also consistent vith BUN's isoperior objective to samitais and enhances whereas a start is inorders objective to samitais and enhances whereas a start of the start is and constrain direction do in the start of the start of the start of the start recommendation that follow are based on this goal.

Rivers, streams and lakes, and their riparian areas are valuable resources. Within their area of influence, they provide habitat for wildlife and fiel and furnish domestic water and recreational opportunities such as beating, swimning, and fishing.

BAYS yield and yielding room -  $\lambda$  Yields for the human has set seveni objections for improving weaks quality and riperina erra and extermined conditions in Weahington and Oragon. The goal, according to this plan, is to improve nearly §56 miles of etremas. Evaluation and monitoring is also emphasized as a major component of the program.

Maintaining and enhancing fishery resources, as noted in all of the draft management plans and the SLN's Fish and Wildlife 2000, is an admirable undertaking. Careful management of riperion

- The Statewide Planning Goals adopted by the Land Conservation and Development Commission;
- b. Acknowledged city and county comprehensive plans and land use regulations; and
- c. The statutory authorities and regulations of aelected state egencies.

A <u>preliminary</u> analysis of a federal agency's consistency detarination is made by the State following review of the draft estermination by the State of Oregon is made following release of the final environmental impact statement on the adopted plan or project.

Based upon praliminary analysis, it appears that the draft RMPs for the four districts are consistent with Dregon's Coastel Menagement Program.

Novever, formal State concurrence with BLM's determination of consistency <u>cannot</u> be made at this time due to a lack of specific documenterion in the RMFs which demonstrates that all of the applicable mandatory state authorities listed in the Oragon Cosstal Management Program have or will be met.

Consist minipular of is final federal consistency deterministion, and all models and an analysis of the second sec

3. Land Tenure

BLM districts have inventoried and categorized their lends according to resource value (e.g., timber, wildlife, wetlands), land status (e.g., D&C or Public Domain) and ownership pettern (e.g., scattered or blocked). We have three concerns on how districts have addressed land tenuro.

First, there eachs to be no uniformity on how districts have categorized Their Lands. Coordination between adjacent districts adjacent to the second common criteria and coordinate among themselves land tenure decisions to interject uniformity into the process.

11

seas combined with sampulating harvest schedules in watershesp and instress improvement schedule help protect the Sinkery resources in waters Drepton. As a general tils, BU schedule no degasts protection of riparing the schedule schedule and degasts protection of riparing the schedule schedule and dange frem seveniti archivites is unworkebit; Dive property thure conditions desired in watershesp.

1. Fish

A State spat is to waiting and protect fish state. Dati ling fich stokis the bolubal, make, and averal souther Oragon rivers will require an unprecedented effort by resource managers to rescaling a compatible will fish populations. This effort vateratods and, in particular, riparian areas. Rul meds to be an active player in this long-targ progress.

Many studies are underway (some 270 on the columbia River system along) to examine the causes for declining fish runs in the Northwest. Freliminary theories on why fish runs are declining range videly from dan construction to detriloreting conditions of dur wateraheds. Mony believe it is a combination of many factors, all interralated, which have led to the prolem.

The types of fish habitat enhancement projects over the next decade are generally not enumerated or described in the draft plans.

Fishery concerns which BLM can influence in their lend menagement decision process include: watershed management (including riparian area protection), forest management practices, and grazing.

#### Sensitive Fish Species

Several of the listed sensitive find stocks, which have been noted by the oregon Department of Find and William (DDPP) as occurring on the various BUT-deministered planning areas include scoted, the mission coastic output (Indefendence Columbia River basis motol), comb sizen [Indef Columbia River Data (Indefendence)] and the scote output (Indefendence) tout, Lost River and Short-need motor Tiest to make a few

Df particular concern is declines in fish production in the Illinois River. Winter «tealhead are of special concern as this stock has been patitioned for threatened or endangered status under the Endangered Species Act. The basin's fall chinook salmon and coho populations have also declined. BLM has surveyed its lands and has concluded that aquatic habitat on some of its lands is not in good condition. These conditions will seriously influence BLM's ability to improve habitat for sensitive fish stocks occurring on their lands.

The State recommends that BLM conduct a survey to identify declining fish populations and develop recovery plans for high rick populations. BUM should takes aggressive action to isprove federal agencies. Tribes, and interest groups. BLM should describe more completely how their proformed alternatives will import semitive fish stocks, and what steps would be taken to nitigate adverse impacts.

#### 2. Mater Quality and Quantity

#### s. Water Quality

A State goal is to ensure that EMM satel or access state and federal water quality standards. The draft Bur plane have stated that they neet federal and state water quality standards; however, averal listicts share and state field strame that do not howe been included in each BAP plan which present general prescriptions for meeting water quality.

The State ballows that the MMO listed in the desit plans contain few searchab standards and varied visity beyond districts. Furthermore, standards are mather clear nor epecific erouph to be used in sonicoring water quality. No information is determinations reporting water quality and erosion potential for forest management activities.

Notice concern has been expressed over the lack of information on longibles. Landslide prevention is a critical component to maintaining where guilty on forest lands. But has identified to a second second second second second second second capability classification involvery. While we same that the landslip into the second described in the farct plane.

We believe BLM districts have not sufficiently addressed potential landslide problems. The draft plans surprisingly lack information regarding alope stability which is meeded for, among other things, the location of waste disposal sites.

The State recommends that BLN districts strengthen their conmitment to water quality through the following:

14

#### 3. Mater Quantity

A State goal is to provide a sustainable amount of water to neet the needs of Oregonians and fish and wildlife resources.

Successive years of drought statewide have elevated concerns over the availability of vatar. Nost BLM plane have addressed streamflows, beneficial uses, community watersheads, and BLM wells. Rowever, additional information is needed to strengthen the discussion on water quantity.

The Stata makes the following recommendations:

- a. The final plane should scknowledge the limits on the availability of surface water and address surface water quality probleme.
- b. Districts should describe watershed improvement and atraam restoration activities which increase low saason flow.
- c. District plans should address ways to conserve and reduce water consumption and soil compaction.
- BIN should expand their discussion concerning the availability of groundwater and groundwater quality problems.
- e. Final plans should provide a more thorough discussion of the potential effects of the alternatives on water yields and streamflows. Other recommendations are outlined in Water Resources Department's response (Appendix 2).
  - 4. Natershed Management

Oregon's Strategic Vescer Management Group has developed a waterahad management goal for the State. This goal, in part, notes that a vescenabed nanagement strategy must enhance and resorce vescerabed accepteens in order to optimis the natural resources of the State for all beneficial economic, environmental, and accial uses.

BIM districts have divided their lands into analytical watersheds using a watershed condition index to neasure current and future conditions. The State supports this strategy, in principle, as it should help BIM to achieve state objectives for water and wildlife resources on lands they definitive.

Planning by analytical watersheds serves aeveral very important functions. First, it allows district spacialists the opportunit to plan mansgement activities on e much smaller, more workable,

- a. BLN needs to make BMPs more specific to assure that vater resources objectives are being mat. BMP language should include conditions for which BMPs are applicable. Supporting policies and documents also need to be consistent with the BMPs.
- b. Consistency through continuing in implementation and senitoring are meaded not only within a district but also between districts. The State reconstants that EN develop norm comprehensive standards willing such separtize as the of Forestry and others in identifying (using SIS) and protecting potential landida areas.
- c. Where streams do not neat State water quality standards for temperature, BIM should not allow activities, (s.g., grazing) which would increass temperatures over the long term.

Topping (de-sessed) respective increase would be periasible for the following extivities; restanting or ispecing fighting areas or in-stream habitar stream howes corridors surplus according of the barrest corridors surplus according to the fighting takes topping the fighting the set of the dust respective increases according to the should be affacts. Tupping issurplus according to the school of effects. Tupping issues would be school of the effects. Tupping issues would be school of the effects.

d. Eif whold svaluts future read staff, continuction, and maintainnon instands to ensure protection of vatar guality. As noted in the Creage State University response, staguats clivert issue [consider 36 and 59 year 1004] as noneasary road design and plugged cliveria, and have a major lupation downstress thormais, riperian area values and fisheriss resources. The Greage Forest Protices rules are urrently land.

The Department of Environmental (vality (ORO) has conducted intensive source of the several basis in vestern Oregon since publication of SLM's analysis of the Knangement Sluwaiton. SLN is encouraged to contact DSQ for the results of these monitoring programs sepacially on streams running through SLN lands. (Sole DSQ comments in Appendix 2.)

15

geographic setting. Second, districts have a better opportunity to monitor the cumulative effacts of all management activities on water quality and quantity, fish, wildlife, and recreation, plus other resources.

21's methodology of using an index to seemus the sumlivies affects of values of the seemus the seemus the protient status could be used to determine where forest management activities could be used to determine where forest management activities could not could not court. Novever, the future is unclear how the kyratactack could in a find exercise in any status is unclear in an any status of the second in a status of the second of the management planning, how is will be used in atandards, guideline, and constrainty and how is will be validated.

The State is concerned about predictions in the start plant sector of the start of the start of the start plant sector of the start of the plant of the start of the vill either dealing to a start of the vill either dealing to a start of the plant of the start of the start of the start of the start of the plant of the start of the start of the start of the start of the plant of the start of the start of the start of the start of the plant of the start of th

The state fails to understand how deallning we resulted conditions will and we be considered and the state of the state of the state standards. It would ease that bain-specific prescriptions to restore or enhance water guilty (a.g., sedimant and temperature) and squate habitat have not been adequately addressed.

Recommendations on watershed menagement and condition index that BIM districts meed to consider when they develop their final plane are listed below.

- a. In order to obtain more significant dats from evaluation end monitoring, SLM should subdivide analytical vatersheds greater than 10,000 acres into smaller, more manageable unite.
- b. Bit should set vatarabad impact standards to holp quide forest management activities. Standards should address maximu soil comparing, around reaks, quivient clarant the standards are projected to be avecaded, propead projects within a vatarabad should he reavailated i Siliar adjustment vould also occur if sonitoring determined standards are not being m4c.

- c. Bik should display severaly inplied streams identified by DDV is Protection Detection and the several stream of Bongar. This could be a several several
- constitut. wratewhat should be classified and prioritized scoreing to for maintaining visib visibile optimized and the score sector states should be deviced in the optimized result of the score optimized and the score constitution of the score optimized and the score optimized the score score optimized and the score optimized the score score optimized and the score optimized the score optimized and the score optimized and the score the score optimized and the score optimized and the score the score optimized and the score optimized and the score optimized the score optimized and the score optimized and the score optimized the score optimized and the score optimized and the score optimized the score optimized and the score optimized and the score optimized the score optimized and the score optimized and the score optimized the score optimized and the score optimized and the score optimized and the score optimized and the the score optimized and the score optimized and the score optimized and the the score optimized and the score optimized and the score optimized and the the score optimized and the score optimized and the score optimized and the the score optimized and the score optimized and the score optimized and the score optimized and the the score optimized and the score
- BIM should enalyse the rolationship between calculated wearshed condition inclose and current flow access the validity of the rating system. BiM should use existing environmental assessment information to validate watershed condition index in their planning process should be included in the final plans.
- ... We thus power to prove the second provided the second provi

We commend the Medford District for recognizing watersheds and riparian areas with high cumulative effects. The district has deferred some 28,000 acres from harmful activities for the next tan years because of poor watershed conditions.

18

- a. Bix needs to define an expected future condition for their riparian management erose and provide namescale to the ded recognizes that riparian systems are dynamic and theonge with time due to estatrophic floods, wind, and other natural ecological processes.
- b. Sequence should be generalized for all press orders and about order functional and enablesia differences between stream orders. At a ninium, these factors should ensure long-term supply of large world debit environments, mage, disconsister, floodplin protection, and critical habitat for villed and sensitive species.
- c. Riparian area management needs to be addressed at the watershed or landscape level and should reflect the current conditions of watersheds.
- Restoration of riparian areas identified in "poor" or deteriorating conditions should be a high priority.
- Riparian ereas in "good" condition should be maintained in good condition.
- Niparian management orms (Moka) should be an appropriate bar of the second should be an appropriate of the second deris (leading of complex wood structure in arces), and down wood (coms/sec = in tiparian management arces), and recognize and manage for sensitive ripariandependent species within a landscape context.

approach space very dependence overla verenhed barfet uit he and var applications coveral verenhed to sensitive species, and hysical characteristic to sensitive species, and hysical characteristic that should be considered was developing harfer with include but are not listed to, every watering the tracking of the sensitive state of the state of the tracking of the sensitive state of the state of the tracking of the sensitive state of the state of the developing harf developing harfer with a developing that case of these important ingrealents when developing that regulates are protection policies.

9. Comparing the same supposed over protection of intraclinations protection of the same supposed over protection of the same supposed protection with a 70 protection of the total attract miles on SMI lands in western oregon. The State recognizes that wildlike and wester gallyry. Creater knowledge through research on the importance of these streams to fish, 20.

### 5. Riparian Area Management

Water and associated streamside vegetation supply a unique ecological function. Riparian areas have their own distinctive environment and provide labol to the stream of the corridors between BMYs Old crowth Repheria Areas and other anchors of biological diversity within a landscape contact.

The State's goal for riparian areas is to prober, maintain and respond (where nonsearcy) indices of the productive productive and the advecty influencing against advector to transmittial areas accomplished by establishing standards for relevant factors which affect attainment of the State goal.

By district, have invertorial streams within that spacific administrictive stres, it mass liss by orders, serve of typeinn area (notity order 3 and above), pollution type and severity, and vegetorive classes have been indentified and summarized in the state of the stream of the stream of the severity and the it about a stream of the stream of the severity as a vacterisk/typeinian accounts.

We would recognize the Klassth Falls Resource Area's committeent to produce a Wetershed Management Prestives Guide. While the sociated of this guide was no volutione loss the section of the weter quality goals. One item that we would encourage the resource ease to rewritist in this rule and the protection standards proposed around lakes which is less than other water Green Bill gias.

The importance of grotecting rightish near space be over the importance of grotecting rightish near space be over and take opencies, rithes, and other have surfaced in rempones through oregon Bates Diversity, Scientific Base of through oregon Bates Diversity, Scientific Base of Bernsstatives, Porest Service (Dyper crands Route Bates), Righting Armagement Guide for the Milnests Mational Sorest), Protection Project, add Andersone Jiheyr Study ver just a few of the many studies recopiling the medd for a greater Westmann and the statement of the state of the star bate of the Science and the statement of the statement of the statement of the star bate of the star and the fibery star for the star bate of the star and the fibery star for the star bate of the star star of the star bate of the star bate of the star star of the star bate of the star star of the star bate of the star for the star bate of the star star of the star bate of

Considering the importance of riparian eress on SLM lands contributing to water quality, water quantity and fish and wildlife habitat, the State wakes the following recommendations:

19

vidife and water quality is needed. We believe that individe and seereme disting within the point boundary before a plan is inplements. It is is starting the projection of the inplements. It is is a starting to the projection of the starting of the starting of the projection of the starting of the starting of the projection of the starting of the starting of the projection of the starting of the starting of the projection of the starting of the starting of the projection of the starting of the starting of the individe (starting of the starting of the starting of the starting of the starting of the project at a starting of the starting of the project at a

Outside (subball level) of the project 486. Intermittent transmission of the project level. and the subscription of the subscription of the subscription and the subscription of the subscription of the subscription and the subscription of subscription of the listed of the subscription of the

- b. Ripcian are buffers identified contarground for proceedings of the second second

21

For both woody debris and valor quality problems, sentextion projects, if inplemental, should use edaptive management combined with intensive evaluation, monitoring, and date evaluation to determine long-term and shout-term tradeoffs. Strict project standards followed up by evaluation and ponitoring are the keys to a successful stream restoration program.

- Exclude livestock in greating allotnents where poor riparian area conditions have been identified until euch time as the riparian area reaches good condition. 4...
- Mining activities in or adjacent to streams should be managed in a way not to adversely impact riperian area vegstation and water quality. to streams should be
  - Netlands 6.

BLM chould increase its recognition of wetlands as a riparian resource in a manner consistent with the Bureau's <u>Riparian-Matland Initiative for the 1980's</u>. Recommendations that the Stete would auguse to included in the final plans are:

- Specifically nome wetlands as features for which riparian management ereas will be established.
- Specifically identify wetlands that will be restored or ь.
- Accounted to recordinate and corporate with public and private indexpose (is Statevid memorandu of understanding) in order to 1) develop a common inventory of verlends; 2) establish criteria for determining verlend significance for protection or restoration; and 1) develop cordinated priorities to protect and restore public с.
- Acknowledge that the preservation of vetlands on BLM lands makes a major contribution to the attainment of the Oregon Benchmark goals on wetlands (i.e., 100% of 1990 Oregon wetlands still preserved in the year 2000). d.

The State endorsee the Medford District and the Klamath Falle Resource Area inventory of wetlands and recognition of smaller one- to three-are sites. This should set a stander that other districts should follow in their final plana.

#### 7. Summary

BIM districts should develop and utilize comprehensive waterehed management plans to improve water quality, water quantity, and fish and wildlife habitat within riparian areas. Continued

Significant Octarioration Increments which limit the amount of emissions that can be added to a "clean" airshed. If the allowed deterioration increment is consumed, then further growth must be restricted, such as new and modified major industrial sources of nollution.

#### 3. Visibility Protection

The state coopering the lipportance of protecting federal Class T areas (vilderoses areas and Crater Luke National Park) from smoke imports as a result of EMI protection burning in watern Group, in these Class I areas. Air quality sonitoring in the Classada we shown a der 7 percent ingrowment in vilability in research is reput responsible for this progress and is closely linked to the GBMP.

#### Sunnary

The State believes that the final BLM plans should specifically address each of the three issues outlined above in cases where sake impacts from prescribed burning could potentially occur. Any increases in prescribed burning including "understory" burning should be analyzed from an it quality standpoint.

In addition, the reason emergence of the forest hash problems in central and seatern oregoin say espend the cole of matural and prescribed burning on mose of the forested land sofulistated by proof to the start of any increased burning to ensure consistency with the Greegor's Start Spisamentation yian and OSP, continued in defressing these air guality concerns about the stressed.

Tourism and Recreation. How should BLM manage for eation, visual resources, and Wild and Scenic Rivers?

BLM lands contain a variety of significant natural resources of recreational value, including vildlife, vilderness, lakee, and rivers. These resources have existing and potential values for local residents and also serve as an attraction for tourism from outside a specific BLM district.

As Oregon's and the nation's population grows, the demand also grows for tourist attractions and outdoor rescreation. At the same time, the State, in an affort to expand its economic base end to mitigate the cyclical nature of an economy heavily dependent upon timber and agriculture, increasingly esphasizes

research and coopercision gamps foderal, estate, Tribus, and the private sector bindl sproverminical accordials rights are conditione. Best Management Protices setting measurable standards and the identification and protection of unstable areas standards and the identification and protection of unstable areas measurable standards, is the kay feedback mechanism for RMP implementation, effectivenes, and cumulative effects analysis.

# Air Quality, How should BIM address the use of prescribed fire as a forest management tool in terms of the potential innates on air quality?

The State supports a balanced ecological strategy for managing foreets in Oregon. An ecological appreach to forest management may entail a greater use of prescribed burning. If prescribed fire is going to be utilized by BLM as e forest management tool, state and faderal air quality requirements must also continue to he net.

The desit Big plans have stated that preserviced burning will be derm in accordance with the Oregon State Englemanticle Dia administered by GSQ and the Oregon State Managament Plan (GMP) administered by the Oregon Department of Oreestry. Incorporated into the GMP is a goal for reducing emissions from prescribed burning by So percent by the year 2000.

#### 1. PM10 Nonattainment Areas

Prescribed forest burning and wildfires in west-wide districts can affect air quality in both west-mand and the district state and federal health standards for wall particulate matter (WHO) Currently these areas are Medford-Akhland, Xlamath Palls, Grants Pass, Bugen-Springfield, and Oakridge.

Although preseried hurting is not a significant contributor to MRO levels in the areas noted above, there is still a need to minipic smoke impeter, in order to ensure that air quality standards are at atland by the ideal dealines specified in the standards are attained by the ideal dealines specified in the tasse scess. The oppartment of Forestry's OMFP is directly tied into these PNL control strategies.

Prevention of Significant Deterioration

The State is elso concerned about maintaining clean air in areas The state is ease concerned about maintaining clean air in areas ourrently meeting air quality standards. Contributing prescribed burning impacts could aggrevate WMAO levels in these areas leading to the nonattainent designation and development of control strategies as discussed above. In addition, the federal Clean Air Act Contains pollution limits known as Prevantion of

23

touriem, recreation, and the service industries which accompany them. Any long-range plan for BLM lands in Oregon should give more weight to diversified use of these lands if Oregon is to have balanced growth.

The states has addressed retrained uses and made through trainers and state lad use pluming goals. The Greens state Comprehensive Ordeor Retrainer Fin (SOOP), while the spectra bilitics and generations leads Miller, provide comprehensive states and states and the states of the states of the spectra states and the states of the state of the spectra states of the states of the state of the states of the states of the states of the state of the states of the states of the states of the state of the states of the states of the states of the state of the states of the states

1. Recreational Tourism

Many proposed recreational developments and management actions have direct impacts on the future of recreational tourism in Oregon. Several of these actions which BLM should comeider in its final plane include:

- Coordination with State and local governmente on actions which may influence our Regional Strategies and Community Initiatives Programs. a.
- Development of a multiple-agency recreation planning program to promote regional recreational development b. and tourism

The development of recreational/tourism strategies by State and federal governments and the private sector is one essential component of Oregon's plan to diversify its economy.

Dispersed Recreational Demand

The 188 5000 projects densed for a variety of dispersed recreational scivities. As disolided in this document, maraly considering activity densed is insufficient to address recreational diversity. Scauly important is to consider the thread of the science of the science of the science of the Recreational opportunity Spectrum (ROS).

The Klamath Falle Resource Area was the only plan which recognized ROS to identify recreational opportunities. We commend them on this effort and recommend that the five westside SLM districts incorporate this rating into their final plans.

The score salipits has identified a need to supply not regulative and semicritive recreations opposite kind of this is now to difficit to furnish this pecific kind of positi Accretation Interpret rates, Area of Critical Provincental Conserv. Outstanding Network, Neesero Down and the Conservation (Network) and the State and the Conservation of the State of the State and the Conservation of the State of the State and the Conservation of the State of the State and the Conservation of the State of the State and the Conservation of the State of the State and the Conservation of the State of the State and State of the State of the State of the State and State of the State of the State of the State and State of the State of the State of the State and State of the State of the State of the State of the State and State of the State of the State of the State of the State and State of the State of the State of the State and State of the State of the State of the State and State of the State of the State of the State of the State and State of the State of the State of the State of the State and State of the State of the State of the State of the State and State of the State of the State of the State of the State and State of the State of the State of the State of the State and State of the State of the State of the State of the State and State of the State and State of the State of the

#### 3. Wilderness

Soda Novartin Wildermess study letes -- EX Completed its Record O Molsion for the Oregon Uldermess study areas in October 1991. BLW e final decision pockage, which must be approved by Compress, recommended that 90 study areas encompacing 1.3 million acres be designated as wildermess. All but three of the Vildermess study areas (two are islands) area located ast of the

Soda Mountain is the only mainland BLM study area recommended for wilderness west of the Cascades. Located in the Ashland Resource Area of the Medford District, it encompage scales 5,895 acres of which 5,857 acres are being proposed for wilderness.

adds Hoursin - Pilot Rook area is an acroamely unique transliton man where constal, high desert, Cancids and Sinra ecopytems converse, Because of ite geographic location and geologic history, any plant and animal geoles, not found anywhere size in dragon, have because stallabled. Bods Mourdin also provide such of the stress identified as a "Designated Conservation Area" by the U.S. Fish and Millife Bervice in the Draft Recovery Plan for the Northerm Bynted Dui.

Ever since BIM began evaluating sites for wilderness consideration, there has been strong public interest in expanding the Soda Mountain area. The Governor's Forest planning Team visited Soda Mountain earlier this year to get a first-hand look at the area and discuss its status with local citizens and BIM.

cince the area is acclupically unique and due to a strong interast by the public, the State normanic that the proposed boundries of BLM's Goda Kountain vilderness he further evaluated to determine if additional ind should be vilderness heaved what has been recommended in ELM's blasteness fough Report of finit legislation is detated for Compressional Approval. BLM is and approximate the function of the state of the compressional support.

26

Given the considerations noted above, the State ballowse that the mathematical states and the second states and the second mathematical states and the second states and the second recognition that all the fivers found digities are not necessarily multiple. But we bally we that the current mathematical mote badgedset for saking that determination.

Criteria that BLM districts should consider when analyzing suitability of rivers should include:

- a. Aggregated values of a given stream.
- b. Importance of aggregated values on both a statewide and SCORP regional level.
- c. Inportance of smaller streams to program.
- d. Non-local as well as local support for a given stream.

Visial independ on coals rivers is best distributed through the coals planets of the second s

- No scheduled harvest (visual resource samagement I) in river corridors, under its administration, designated as wild.
- b. There are separate of views designed as easief should be assigned to all initial and group close accession portunities in a new-neural setting. While sitvicultural protices could occur within the 1/x hile courded, then proties should be an evidence and the setting. The setting the setting the setting of the setting the set the setting the setting the setting the set the setting the setting the setting the set the setting the set
- c) Hive, or expended of fivers descipated as recreational abouid be anneed to antichin OWS provides they are designated while providing fiver-related recreational opportunities in a recreational setting. On rivers that a should be implemented which would protect and enhance existing scale conditions.

encouraged to carefully manage the entire area of public interest, outside of BLM's proposed WSA boundary, in order to protect its current ecological values and suitability for wildernest.

The draft plans propose significant additions to recreational trails on BLN lands. The State supports this direction espacially for those trails linking recreations sites, those alleving access to Special Recreation Management Areas, and those providing connectors to other recreational trails.

The first encourage such EAM district/lineath fails Descure Mass to rovie recommedizion for theil hangement in our recreation paper (Appendix 1). Some of the recommendations noted in the paper Includes (several print) pines Wilhin each proposed inplacenting silvicultural practices to nitigate impacts. We urge that these recommendations be considered in the final plane.

### 5. Developed Recreation Sites

The preferred alternatives propose substantial increases in canping and day-use sites, in many cases nore than doubling current provisions. We are very supportive of this increased esphesis. High priority for such development should be given to those sites supporting local recreational and tourism strategies.

#### 6. Wild and Scenic Rivers

The State gives a high priority to the Federal Wild and Scenic River program. It, along with the State Scenic Naterways program, is critical in maintaining the natural resource and rescantional values on Oregon's waters.

The following concerns have surfaced with all of the draft plans:

- a. The draft plans do not make it clear whether federal land management actions that potentially could have impacts on designated waterways in the State system will be coordinated with the State.
- . Technical procedures for detenhing rive suitability were not sufficiently and the latest of latest plant. Technical supertection of the superscript plant is the superscript plant is and for ranking rivers as suitable use of voltacandingly Resarkable Values" (ORV) in rating; and use of economic costs and local support oriterion.

27

Where neither scenic or recreation is an ORV, the VMR class should be determined through the individual planning process. For these rivers, visual resource zanagement class III should be considered the minimum.

- d. In areas where nore restrictive land allocations are already in place (e.g., primitive recreation, ACECs or Special Recreation Kanagement Areas) the more restrictive standards should apply.
- BLM should concentrate on 1/4-mile corridor along rivers in designing plans for stream with wild and scenic designation. BLM should also manage adjacent lands beyond the 1/4-mile boundary, where necessary to protect ORV.
- All values on eligible rivers should also be maintained at their current level for the plan period (10-15 years) or until congress acts.

The State strongly encourages BIM districts to work with adjacent landvmorr, the State and the public when analyzing streams for designation. Additions periment consents regarding wild and scenie rivers can be found in the Department of Parks and Recreation's remejonse found in Appendix 2.

#### Off-Road Vehicles

Various forms of off-road driving are projected to increase in many of the draft plans. With their mearness to major population centers, BLM lands are a major provider of this type of recreation in western Oregon.

off-road vehicle variation, while enjoyed by individuals and club, has created acome and use controvery over the years on federal and state lands. To litigate these potential problem, this find management plans for designating areas to need offread vehicle deshed. We strongly recommend that off-road which should be developed by send district.

BLN should strengthen its standards and guidelines for off-road vehicle use. Brochures should be published for public distribution showing locations where off-road vehicle use is permitted and explaining regulations on use.

<sup>4.</sup> Trails

#### 8. Scenic Highways

The public's perception of how BLN lands (and other ownershipe) are managed is in many cases determined by what people see as they travel the highways and hike the trails. This is a major reason for maintaining visual quality along roads, trails, developed recretional areas and other visually semilive sites.

scenic quality contributes to the increasing tourist industry (n western Oregon, Nuchreds of 218 as of Stath highways run through BIM-datinistered lands. Highways 21, 26, 34, 35, 47, 42, 126, 131, 140, 103, and Interstates Star just a few of the routes for the start of the start of the start of the start of the state visitors. With this in sind, BIM listricts should obcatefully consider scenic quality in their Row/2180.

It is second that ministing postingly is visual quilty on sull have is a compared complicated by its chockward ownership. In any cases adjector constrained by its chockward ownership. This, however, has charged as evisions to the drepps Preset Visual standards and jeantifed expection theorem for the protoction. Visual quality sort likely would be enhanced if the aid cast plane preferred likerulies would be enhanced if the sid cast plane preferred likerulies would be enhanced.

The State recommends the following regarding visual quality:

- b. Scenic values along the major highways, cited above, should not fail below views: resource rangesent (VW) (cass III. The State believes that VMS (laws IV (modification) would not retain the visual quality objectives along these important travel corridors. The application of new silvicilural concepts by EiM may help nitigate visual concerns.

30

1991, over 486 million board feet was harvested from Bureau lands which represents sight percent of the total volume harvested statewide. Forest management activities not only furnish jobs for local economies but also are an important revenue source for counties to support achools and reads.

siff a logal modets for manying its lands has cose from the OLS Act and the Dovest Land Dollary and Management Act. These laws, which were discussed in the Ecosystem Management socials of the Section of Cost and Section Section 2. The Section of the Seclist, the OLS lends have been increasively assaged over the lay Elity years as directed by compressions mandate. Public Management Act consider norm suitight are policies.

#### 1. Forest Land Management

Inder the ourput plans, forst management smalls implementing support of the management of the star output of the splicition of intensive management practices (e.g., burning, planing, strilliation, thinning, and controlling comparing vegetation) on short ordations (40-40 years). The plans, objective is to intensive if works of the star of the strike objective is to intensive interval of works of the star of the star objective is to the star of the star of the star of the star of the eccesion within districts.

Implementation of this stringy represented accepted forest management practices for managing weeken foregon forests in the part. Recordly, however, these practices have been questioned due to it and weter quality problems and production of concerns. This has required BIM and other forest landowners to reasees their approaches to resource nanagement.

In the dentry pares, EAM is propering to seat this chilings by adopting an experison approach to forest management moons as biological diversity. Biological diversity represents a biological diversity. Biological diversity represents a diversity of the second box forest built and salitating productive econgrisms.

The preformed alternatives are designed to produce nature and older formate over time. Because jess older formate vill be provided on adjacent private lands, we are concerned that the dockectories our ownership partern makes it unailkely that the ondoce the desired future condition of major formate, nearly complete vertambed-level ownership is necessary.  BLM should work with adjacent landowners and others to maintain visual continuity.

The State supports BLM's Backcountry Byway Program.

We also support Salam District's special protection for the Mt. Hood Highway corridor including land exchanges to promote visual quality.

With an increased interest in driving-for-pleasure, these designated routes will give the public sightsweing and wildlife viewing opportunities on lands administered by BLM.

- . Technical Issues
  - a. Estimates of Recreational Use

We understind that BLM dome not currently estimate recreational use on lands ender its yeirediction. Therefore it used estivity occasions derived from SCORF, adjusted based on BLM's proportional forested recreational land base for this planning period. We concur with this methodology, but unge BLM to develop estibude of use estimates more appropriate to BLM lands in the

#### b. <u>Economic Valuations of Recreation</u>

callyis of the eccent benefits of restruction use should be deviced with values appropriate to LHL index. For example, we understand current schoologies do not place eccent values on recretional activities courring within a BH district produce by residents within that district. This would hist the transfer information in school activity of the school of the school of the control matches courry. We use that current recreasional accounts matches courry, We use that current recreasional accounts matches courry. We use that current recreasional accounts matches courry we use that current recreasional more than the described in the final RDFs.

F. Tinber Management. Are BLM's tinber growth and viald assumptions valid? Box vill silvicultural practices he used to support projected harvest levels? Will BIN be able to produce the harvest levels predicted by land allocation? Hes BLM adequately advanss forest health?

Tinber harvest from lands administered by BLH has been and will continue to be a major source of logs available to local mills throughout Oregon. Over the last ten years, ll percent of the total volume harvested in Oregon has come from BLM lands. In

31

A variable of becoming have have meet to provide slder page class forest. Cid downing happans is called (SIME) is also by year relations and density management to accolators older forwar common statement is a statement of the statement of the cide statement of the statement of the statement transmission of the statement of the statement transmission of the statement of the statement older statement for both of the statement dispersion balance on continued requests for a statement of the stateme

The Kadford District has divided its planning area into southers and mortcers manegement units based on its productive, plant community, and forest condition. Proposed forest management prescriptions have been tailored to sach area to battar fit management practices are also being proposed in frest-prone areas. The State congliances the district for this effort.

inplementation of userwranged management, semedially in the klasht rails menures train professes pine sampling-associated stands, is also supported by the State. Both the Medford District and Klasht Fails Rescure A reas match using unremaged management as a filviolitral management bol. A stress possibly other districts, will implement unrem-god management and how this differs from the various green tree standion standards build project in the prairies distribution.

Our concern, which will be reitorated gain in following sections is the meartin uncome of spyling unclasted silvicultural prescriptions through biological diversity. It will take highly trained professionals to implement and anoitor biological diversity to determine if the program is successful meeting and interest in the program is successful in meeting and interest.

Adequate funding is moreovery for a successful program. May is proposing a work higher level of introdive amagenet (so, ner genetic plantings and pruning) than ever before. Nistorially, monies have not been valiable for introdive amagenet program activities. We question how BMI intends to obtain the moreover activities. We question how BMI intends to obtain the moreover you have been available for a state of the state of the most planting of the state of the state of the state activities. We question how BMI intends to obtain the moreover possible inpacts on managenet programs and outputs (s.g., allowable allow gunnity) of lower funding levels. We direct your attention to the Depertment of Forestry's response (Appendix 2) and Oregon State University's Report (Appendix 3) for more detailed comments specific to individual BLM istricts/resource aree.

#### Land Suitability 2.

Let desrice have investoried their looks by weing a symbol but desrices investoried their looks by weing a symbol ampping has halped identify the vacious TPC clearified the Approximation of the symbol investory identified the produce forest products on e marking yield. Sees 2 million areas were identified a sufficient in westory foregon/issub fully varying degrees of timber harvest. Less then i million erres weils hallocated to general forest under the interimitiant and connectivity ersel, world fully less than i we have production se opposed to the general forest site for the state interimitiant of the set of the state of the symbol production se opposed to the general forest site forestion.

The state processes the LF, using also shall and from the draw of the state of the state of the state of the order state. The state of the state of the state of the order state of the state of the state of the determined to be unmultable. If it can be determined that some of themas leads can be unbuilded by the state of the state of themas leads can be unbuilded by the state of the should be taken of the base.

Comments regarding BLM's TPCC inventory system are found in Appendix 3 -- Oregon State University's Report (page 43).

3. Growth and Yield Assumptions

Estimation of the sustainable yield level is highly dependent upon a number of assupptions regarding lad bases, tinher inventory, menagement activities, and growth end yield assumptions. If the assumptions are not correct, one may find in the decodes shead that either the harvest level was not sustainable or that the harvest level was less than notid have been realized.

The allowable selee quantity (ASQ) on each BLM district was calculated using a computer program need TRIM-FLUS. Distr used a combination of two growth and yield nodels (Stand Projection System -- SPG and ORGANON) for estimating future yields from samaged forest stands. Dietricts

34

#### 5. Timber Supply

The primary friers of 10% socia-scoosed analysis is timbar sopply. BL weak an innovative approach to noise itimar supply. This approach has such marti. Revever, some basic assumptions need to be revised and the analysis for the final pleas should relief a norm unnertain picture of tibber supply in oregon. In used in formulating its dort alternatives and how it will be used in formulating its dort alternatives and how it will be used in formulating its forth asponse Sund in Appendix 1 for operating. If forestry's dort response Sund in Appendix 1 for partment of details.

A summery of the concerns and recommendations regarding timber supply include:

- Due to the uncertainty in timber supply, it is reasonable to assume that stunged prices will increase substantially more than has been predicted in the draft plans. We encourage ELM to reavaluate the stunged prices used in its analysis to better sligh them with current projections.
- Overall, analysis of the timber supply situation is more optimistic than warrented. The draft plans portray what is likely to be an upper level of timber supply. Additional heavests from private owners, the Forest Service, and forests managed by the Oregon Operations of Torestry. Uncertainty about the probability of implementing planned BMX timber eals levels should also be documented.
- The public's sensitivity toward harvesting younger stends The public's sepsitivity toward harversing younger stands double in the sepsitivity toward harversing of the second sepsitivity of the second sepsitivity of the second se
- Timber cale quantities are highly dependent upon intensive nanagement activities yet, historically, BLM management activity accompliahments ere well below planned levels.

Levele of nanogement practices on BLM forest lands are dependent upon levels of fadoral funding. These with the second second second second second second provide dependent research for a converse faund but have often hemen insufficient to take advantage of opportunities of the second second second second second second second or forest lands. Planning for socie-scored impacts of projected tilbase supply levels should consider the untabut impacte of he unstable Severel questions have been raised regarding BLM's extensive inventory system including scaping selection, unit design, and intensity schools. Concerns have also been expressed regarding BLM application of SPS (en even-eged Couglas-fir or western basicot calibrated model), to stande where green trees will be

Some of the draft pleme noted that the preferred elternative includes many elzewarts which are recognized to be substantially untested modeling of substained yield as compared to other elternetives presented. It is further moted that the level of confidence in yield and horvest values is lower than other elternatives.

The first is converted that MO levels predicted in the dist blank may be included satisfies of the social volume that can be expected. Questions reporting lowentry design, site index equations, volume and taps requestions, growth and yield from intersive anagement protices, sinking harvest upsis, see listering and the social state of the social state of the listering of the social state of the social state of the Birty find just be conducted and the sile would be ordered on the silewahe out affect of defiring for 80 years econ 61 the OGLe even though they remain in the timer base.

The State would direct BLM's ettention to Oregon State University's Report on growth and yield in Appendix 3.

#### 4. Forest Health

Outeriorating forest health conditions can be visually detected as one trevels in estima freque. Forset halls is also a disease portainty is very conson. Forest health conditions influence the scout of timber yield sustained over time, the additive to maintion critical film and vidility tablets, and the saintennee and development of rectantion opportunities on all forest lands regulates of ownership.

Bit's draft plans fail to adsputcly address forest halth issues which have teaching and both pulled and policial stantion, or objectives of the proposed management alternatives. Nedford end Kinarth Faile draft plans come the closest to addressing health problems end solutions.

The State recommends that BLM's final plans set specific goals and objectives including monitoring detailing how management health problems and what nitigative measures will be implemented to improve unhealthy forest conditions on BLM lands. We encourage BLM to work with tother forest landwarms to improve forest heelth.

35

neture of federal funding of forest management activities end the difficulties of eccuring funding for these activities over the next several decades.

- Tinkes supply is the primery driver of the HLF socio-scronair saviys but does not appear to be on important part of alternative formulation in the dreft plane. One would have expected BLF to use this analysis es en integral to use the analysis as a key decision criterion for the record of decision.
- The lowes appears to how used a barnes flow constraints how as separatic Mondelling Vidi. The basic concept is to find a harvest level that can be sustained over time. This process is a foldy reliable approach to regulation what first the state of the sustained over the sustained and the sustained over the sustained over the sustained and the sustained over the sustained over the sustained and the sustained over the sustained over the sustained and the sustained over the sustained over the sustained and the sustained over the sustained over the sustained over the community sublice, find and the sustained over the sustained atternative in the final plate. £.

G. <u>Bildlifs Management</u>, Now should BLM districts manage for big gene? What snag levels should BLM provide for cavity-dependent birds and other wildlife? How should sensitive, threatened and endancered wildlife species be managed?

#### 1. Deer and Elk Habitat

Big game is an extremely important resource which depends on cover and forces found on BJR administered lends. Big game viewing opportunities. The Game's Creek EJN Viewing crees is an example of Bird's commitment, in coordination with the state, or villation.

BLM districts have appropriately utilized the Wiedom Model in determining big game habitat conditions. However, BLM has not stated how it would improve habitat effectivenese (HE) for big game in areas with low HE indices.

Cover

Cover is not of the drilled component that ends to be swallable on BML hads if anonyment offvering (i.e., St indices and number of mnimils) set by the Oregon department of Fish and Villife (orgyn) are to be schived. Gover, which includes the Villife (orgyn) are to be schived. Gover, which in includes the evaluated in the draft BMN plane. Existing over conditions were readed as regional in most of the six anagement explains areas.

The reason given for these marginal conditions is past forest management proteines on BUM and adjecent private lands. Under their preferred alternatives, BUM districts are prodicting no change in the abort term for gover conditions. Cover conditions as a solution of the second second second second second sacquard in the general forest area. The State is concerned should ing-term marginal counditions in the State is concerned

The final RMPs should address how BLM proposes to improve marginal cover conditions and to meet HS and hard number objectives. Blu should work with OOFW on meeting thesa management objectives.

#### . Forage

Traces williy and sviilability are also important elements messensy of big game arrival. Like cover, Like dast plans indicate parginal euront conditions in nost of the esphesis areas/malyical vatershaft. Lack of forega or pore forage gualty has led to deer and alk signating onto private lands thus use of forega exelling charved units and read rights-of-way. Cose May, in particular, is planning to sed up to 30 percent of the arres Marvedd each year.

BIM districts should consider the following recommendations on forage in their final plans:

- The final RMPs should address how BLM proposes to improve marginal forage conditions and to next State HE and herdnumber objectives. BLM should work with ODFW on meeting these management objectives.
- (2) Expand, where feasible, the forage seeding programs to benefit big game. BIM should increase its effort to search out and/or create mative grass and legume eeed sources for forage seedings paletable to big game species.
- (3) BLM should fund forage seeding through timber sale receipts.
- (4) BUM districts, in particular the Klassch Talls Besource Area, should attucture grating illocated plant to stilata forage conflicts that may arise between livestock and big grame. Altornatives such as shortening livestock grazing periods in the fail to allow green-up for Winter forage may be helpful in decuming forage problem.

c. Roads

A plan to manage roads in a responsible manner is perhaps the most powerful management tool BLM has to benefit big gama in western Oregon. Open roads allow easy access to big game herds

38

A Recovery Take was appointed by Sacretary of the Therefore Light to appoint the second provide the void condist is hists if for the system of and there seeds plus the economic effects of implementing a recovery plus. The State has a member on the laperson Northern Spotted OVI Recovery Team and has contributed support, from several State segments, to the process.

Support, icon several state agencies, to the process. Eur/e drift preferred siteratives propose to address spotted oxis and other critical species through spollation of secory spotter and the species of the spotter and the spotter according to EUR is "To manage almost to construct a consumity shalling and the spotter and the spotter and the spotter spotter approximation of the spotter and the spotter spotter approximation of the spotter and the spotter the spotter approximation of the spotter and the spotter the spotter approximation of the spotter and the spotter the production of a certain lawal of goods and services on lands available for the range.

As moved in the 0.6 Growth and Mature Forest section of this coordinated response, district have taken various approaches to maintaining and producing nature/oid growth stand conditions. The concepts revolve around creating 0.4 Growth Fightam Areas (05EAs) and Connactivity Areas (CAs) and Klamath Falls Resources (1997) and Connactivity Areas (CAs) and Klamath Falls Resources districts.

Due as a circuit an identified three classes of COUMs and Due as a control to an offert so and the source of the control forstrong block is called to room intensive amegasant than in forstrong block is calling for room intensive amegasant than in the features block, there is a need to accilents of forest continue. All this main is a stopping, there is a control possibly too appressive that it say not need the intent of the spetied of recovery just. The downers' family family family means and the stopping of the stopping that the source means and the stopping that is a source of the speties of recovery just. The downers's family family family and means the stopping that the source of the stopping that the means to discuss proposed samplement prescriptions under the preferred alternative.

Other connerms have also surfaced regarding the returnion of suising states of al growth and whether or not EUM's older foreat surnheavy will be surficient to meet dispersal habitat needs of the spotted out. Purthermore, BUM has not done a rick analysis and devaloped contingency plane for OGEAs and CAs that potentially could be destroyed by a catastrophic event.

The effectiveness of CAs as corridors for wildlife movement has not been adequately addressed in the draft plans. Some of the factors that may affect the utility of these areas include: their and other wildlife. This accessibility has exposed deer and elk to greater human-caused disturbances. Big gams must expend nore energy to seek hiding cover from hunters and others when open read densities are high.

Open-road densitios exceeding 4 miles/aquare mile are common on all of the BIM districte. Geclines in big game habitat caused by a high density of open roads has bean well documentad. We direct your attention to the roads management section, Appendix 1.

#### 2. Snags and Dead-and-Downed Wood

Gead and down woody material is increasingly recognized as an important component of the forest ecosystem. Bix should provide enough "willfife trees" to maintain vable populations of birds and other willfife. Additional steps should be taken to ensure the development of energy over time.

Green trans should be left on researchion unlist to provide transe anage. DM districts are commended for propping to lave 6-10 green trees per sere. However, residual green trees left on haves unlist may not be long lived or may blow down such that the series of the series of the series of the series of the togical or blast out the tops of none of these trees over time in order to provide snagt to support desired population levels.

BLM should have concrete proposals to create snags including estimated budgets and work-month requirements. BUM should also abould fund research to determine whether artificially created anags have the same utility for wildlife as those produced naturally.

The State supports ILV's proposils for referition of dash-anddowned yood. Monor taskible, BIM should provide downed logs greater than 24" diameter at a minimum rate of Jacre. BIM should include the retartion of target levels of dead-and-downed wood in contract struplations for planned timber sales. BIM see attained.

3. Sensitive, Threatened and Endangered Species

#### a. Spotted Owl

The northern spotted oul vas listed as a threatened species on June 26, 1990 as it vas determined that declining habitat conditions were leading to possible extinction. Several conservation strategies have been developed, most notably the Interagancy Scientific Committee's (ISC) Report and the Oraft Recovery Plan, to address the northern spotted ov!? recovery.

39

width, current fragmantation of habitet within the corridors, the effect of timber harvest on current and future habitat more ics including anticipated patch size, land ovwership pattern, and different dispersal medes of wildlife. BIM should address these fractors in their final blane.

Intensive management of the forest landscape has created the current stand conditions that exist today. To reach conditions we desire in the future may require score manipulation (less intensive than in the past) of forest stands to hasten old growthymature forest conditions.

In the capped billy of the 00 7 km and bildlife Barvice to Ascernize dicher. EM plan compy) with the final support dynamic Act. The State supports the general principles and overall a pears toward needly the prevent impass. The final heavery is a sense toward needly he prevent impass. The final heavery bould be adopted by Ed unless the J.S. Hah and Hildlife service determines that BUF and anagement strategy is adopted for proteining the sprint do out.

#### . Bald Eagle

The State concludes that the implementation quidalines for the Bald sage recovery plan have been met by the district. However, OOFM is specifically concerned about the bald segle resating area in the Scappose block which has apparently received no special protection in the Salem draft MMP. We would ask BUK to contact OOFM regaring this expectitio bald eagle site.

#### c. Marbled Murrelet

With the recent listing of the mathematics are threatend species under the Zdeagreed postes Art, Bit must provide an indepth analysis of the effects of the Alternatives on this shares to entrustry of the effects of the Alternatives on this shares to entrustry related to relate the latest scientific information. From an operational context, the State Federmands protect mathematics habitst.

#### d. Other Sensitive Wildlife Species

Additional concerns have been expressed by GDF and others on populations of other creeps nameliave appeals [s.g., neutropical higher birds that may be impacted by EMP preferred laternatives. This concern separally applies to the generation of the separation of the second second second contexpected weak of the second second second second second second these species may be severe, but applies to other allocations of weak in the final NMMS meet to provide clear direction for istaspecial protocolog of these species isolating information on bottocologies of size and other important ablest rease. But should take no action which would contribute to the litting of statistic species. Bit should investory sensitive species resulting from nanegement actions, and another to assess the impact of actions on essentive species.

H. <u>Old Growth and Nature Forest. How will BLM manage its</u> forests to maintain old growth and mature forest composition?

When paople think of forests, they may envision majestic old growth. These old growth stands provide habitat for many wildlife species and furnish a variety of recreational experiences.

Old growth is also still important to the timber industry. Because of its size and the quality of the wood, these trees are especially prized by industry.

According to the BIM's sile activation denotes intervention of the set of the

All districts are proposing several different techniques to maintainproduce of the several different techniques to maintainproduce of the several different to constructuration. Case as enanged using 150- or 00-year totations. Himsth Falls Resource Ares's proferred alternation auromatch and the several different different setting and the several different different setting and the several different different watcom portion of their presence area. Realast trees (several different different different different different units witchin the general forest allocation or nondeferred different diff

BIM's biological diversity proposal is innovative but untasted in that it will attempt to maintain old growth characteristics for species such as the spotted out while still producing tinker. According to the BIM's Executive Summary, 324,000 acress of old growth wuld be remaining after 10 years: 475,000 acres after 100

irrigated hay for winter feed. Declines in livestock forage from the BTM could have an effect on local ranches. A decline in the economic stability of local ranches would grants economic hard-ship on the communities in the surrounding area.

The first's recommendations output the last of the economic and cultural factor of the liverbook industry by propering a second second second second second second second that and second second second second second second vises locked on takes producting second second vises locked second second second second second second of keast field beserves area while second second second of keast field beserves area while second s

The rimmth full a parameter have currently has some 05 grains allocated, 61 parameters/tesses) producing 15,809 Animal Unit Wonths (ANME) of forspo annually. An additional 5,004 AND are classified as supposed normale. According to but start liames managers (using a core tesm) have evaluated the impact of grains mother second values. According the half of a data of a data of the second s zing game forage needs

The Klamath Falls Resource Area has identified some 14 allotments in need of inprovement. These allotments represent over 61 percent of the total allotted grazing acres on the east side and 28 percent on the vest side. In total, this represents some 57 percent of the allocated AMSA.

Klanath falls' draft preferred alternitive propesse that 13.385 Alter per year be available side of persective facting of a single side of a single side of a single side of a is based upon a need to develop upland water developmenta, inproved riparian area conditions and improve forage for both livestock and villifis.

Arrestore are followed to be a set of the start of the set of the could continue unchecked.

44

years would be considered old growth. This would be an alleged increase in total acres from the current inventory of 296,000 acres.

Whis the State supports SLM's approach to maintaining and protecting old spowth stands through blocgioni throw on old growth cappadent species. He further readile that the harvest from these stands represent the most predictable portion of the allowable sales quarity in these underfain times of timber supply.

The starts concern concess on EMVs proposed harvest of old the starts concerns concess on EMVs proposed harvest of old iteratives. More specifically, there is currently a shortfall of bloqhead diversity opportunities existing in the Gast Rampe due to human and natural disturbances. Next setemated in the Sampen, Sais and in concerns management. Marvasting of old growth within the general forest allocation will further exacutors the problem unless flictive seames are considered.

The bits bally and the second second

The dott resonand but IM further evaluate the impact on biological diversity generation, packas, courter, lindescepi in the baset mange from harvesing bid growth in the general forse develop and analyse other starter with the restin biologically significant 6.2 growth generatives while still producing command starter in the membrank for there is the develop of an evaluation of the second starter is the starter of the second starter is benchmark for there is the resting regulation of the starter is benchmark for there is the regarding old could act as a be growth retention.

Livestock Management. New will BLM manage its grazing lands to produce forace for livestock and wildlife while protecting other resource values, in particular riparian areas?

Ranches located near land administered by BIM and the Forest Service, in many cases, depend upon livestock grazing from these lands. Historically, nearby cattle ranching operations use public lands as summer pasture and utilize home ranches to grow

43

perturbance, the kineth jam shorts annual grasing in tiperian scale with urganing in such degraded scale scoret under stillen allow grains in such degraded scale scoret under stillen they noted the scale scale score to the scale of the upper house the scale scale scale score to the scale until scorety is achieved. The downshore between the BIM and private owner these they are scale scale to the BIM and private owner these they are scale scale owner the scale owner.

The State is also concerned about livestock impacts on fish and wildlifs, with special exphasis on the Lost River and Short-nosed Suckers, big gaze, sage grouse, and other riparian dependent

The sizes supports a liverook management program which allows grains while protecting resource values (i.e. wears quality and fish and wildlife holitat). Considering the need to more account of the size of the size of the size of the size of the proposed abort-term decline in AXMs wears source deprediction is sizes additional reduction of AXMs when resource deprediction is apparent

As part of the range management program BLM should:

- 1. Develop allotment management plans for every allotment.
- 2. Monitor allotment plans on a regular schedule.
- Activate range improvement projects (seeding, water development, and preacribed burning) that will both increase forage productivity and draw livestock toward lands not currently grazed and away from those in poor condition. 3.
- Implement grazing systems such as seasonal use and deferred rotation grazing that better fit the livestock to the resource.
- 5
- Attract livestock away from riparian areas by: Developing other vater sources Placing salt blocks away from riparian areas Planting other palatable vegetation
- Limit livestock use in riparian areas to periods when forage and soils are most resilient and to uses determined by site-spacific conditions. 6.
- Exclude livestock until the recovery of riparian area vegetation (to a good condition) is enough to allow managed grazing.

- Maintain and protect streams in "good" condition; restore streams in "poor" condition.
- Secure a stable funding source for livestock management program.

Short-term declines in AlMs may note on specific sites, but production should stabilize and, perhap, was increase over the long-run once stress and rangeland conditions improve and problems of resistivation and grazing addanistration are problems of resistivation of grazing addanistration are lang, as proposed by BLM, will detect resource problems. Grazing streegies should then be adjusted where needed.

BLM already has one key to success for balancing forage use with the protection and rehabilitation of the resource base: the generally inproving flow of information and ideas among its staff, the Forest Service, parhitees, and other resource users.

Two other success factors in this effort are the rapport between BNM and not silotenth holders, and the expert help available from local soil and water conservation districts and conservation groups. Saveral BMS sponsored grazing projects in eastern Oregon (a.g., CARP Creak) have shown that proper grazing management can support liveshock while protecting other resources.

The State believes that local people continuing to work together in a cooperative spirit, wetershed by watershed, will pay off in better resource management and an improved livestock occonsy.

J. Minerals and Energy. How should BLN recognize and manage its mineral and energy resources?

Kineral and energy resources can be found on many lands administered by Nix. These valuable resources may include lessable minerals (oil and gas), locatable minerals (gold and other previous metals) and sable mineral (rock and aggregate ces physics of the same state of the same state and spite state lends. Mu definition of the same state lends and state sources depends upon and spite state lends.

While districts have discussed mineral and snergy resources in their draft plans it is difficult to determine the location of these resources. In particular, State-owned mineral rights underlying SLM surface ownership have not been identified.

The State makes the following recommendations to BIN regarding minerals and energy which should be considered when developing the final RMPs/EISs:

46

- Economic Benchmarks -- the goal of reaching the national average in per capita income particularly for regions outside of Portland netropolitan area and regional job distribution are severaly impacted by the preferred alternatives.
- Social Benchmark (specified as Benchmarks for People) --achievement of goals relating to drug use, social harmony
  and job kills are advorsely impacted by the structural
  accompanic change which will result from the preferred
  alternatives.

The State calls on SLM to provide the analytical ground work for an effortive policy response to the fundamental social and economic changes which would follow the implementation of the preferred alternatives.

The economic and social conditions throughout Oregon are a major concern for the Stats. The management decisions taken on federal lands affect the economic and social welfare not only in nearby communities, but also the State as a whole.

Lands chilistered by BLM in western Oregon make a significant contribution to the actomay of Oregon. Blue and local there havens (on BLM lands, BLM langes both habits Consin and Oregon and California (slojiands, Some SO percent of revenas Regen contribut metalgion of Cl lands 10 given to western

Many Creapen contlies are very dependent pon revenues from federal land which help finance schoole, rocks and local government. Douglas county, for excepts, derives over 80 parcent forschilte Courty, 10 percents and come Courty, 14 percent. In forschilte Courty, 16 percents and come Courty, 14 percent. In receipte from Coi Landa. The five-year average 180-180 per OC payment to courties was bin inline a year.

Other direct revenue payments are also generated from the management of SIX lands. These revenues include mineral and payments. Resonant of the second second second second optimises are also also generates indirect revenues to local commuties.

Declining times harmafs over the last two years have meant increased unanchycomes in the theory department of the theory the State, increased social problems, and decremand contry rewenns. To address these problems, the State responde to Bitr's Analysis of the Management Situation noting our concerns and asking recommendations on how to analyze accid-cenoratic inguets.  Each one of the finel plans should: a) acknowledge any state-owned minerel rights (list legal descriptions); and b) preserve, whenever possible, access to existing valid minerel rights.

At the very least, the State believen that the management of several estates with state-owned mineral rights should be specifically addressed and that the management direction offer the greatest possible latitude to the State.

- MK districts should ecopyliz energy and minerals ds an important resource when axing land management Allocations. Land available for sharel and energy exploration and environmentally possible in the predering alternatives. Occasions to vitherw lands should be based on an open operation and relamation requirement.
- There is a need to better quentify the value of the resources and to factor the resource value into the BIM alternatives. Specifically, mineral withfravals have been need to be the benefit of a mineral inventory. Such an recommended.
- For all districts, the State encourages BLM to provide realistic opportunities for mineral exploration and development. Mining overlay zones and exploit standards and procedures to allow mining in other lend allocations are viable mechanisms to use to mitigate conflicts.

While budgeting for mineral asseements hee been a problem for BLM, the Cepartment of Geology and Minerel Industries stands ready to assist districts in assessing the mineral potential on their lands.

X. <u>Sogio-economic. New vill the adopted plan affect economic opportunities in aurrounding communities?</u> What impact vill the plans have on socio-economic stability in the planning area and statewide?

The low-time socio-momonic quals of Congenie sets overrands and its people are spylic of a longeni Academic Setting Measurable.<u>Standards for Propress</u>. The State eccepties the read to diversify its eccentry particularly in nonstructure points areas to diversify its eccentry and the dark ISs are not inconsistent with this qual. Neversh the dark ISs are not inconsistent with this qual. Neversh the dark ISs are not inconsistent States Authent priority strategic planning quals (May and Lead Bendmarks) in the captor areas the put at Subtancia [14] and Lead Bendmarks in the captor areas the put at Subtancia [16].

47

Over the last new the sourceary retree plantig was has source the source of the sourceary retree plantig was and the and make second on sourceary tracks to be the source that the source of the source of the source of the source that the source of the source of the source of the last of the source of the sourc

. Socio-Economic Conditions

The Stete connends BIX for analyzing sigration trends, unemployment rates and the econosis structure of the regional economy. We destion, how only the transmission of the regional structure of the structure of the structure of the structure structure realizations. We recommend the following additions and further evaluations.

- Simple economic base analysis showing export base for counties in each district.
- Gemographic and occupational profiles for communities likely to be impacted.
- c. Occupational profile of displaced workers.
- Reevaluate (using a consistent set of models) the impacts to total employment of harvest reductions.
- Expand mitigation discussion to include the adverse socioaconomic impacts of the plans and weys to lessen impacts.

The final BLM plans should also update the economic data presented in the draft plans to reflect more current information. (Note Appendix 3 for a more detailed discussion.)

#### . Conmunity Stability

We spees with MH that imposte on communities will very within soch district med screws districts. A note while desired schuyets is meeded which would gliow SMX to systematically weinter the impact of harvest reductions on scress not can juy within but size the preferred districtives inpact on community stability based on structure, compational size and desarportalise of communities.

#### . Social Impacts

Social impacts are briefly mentioned in the plane, but there is no affort to systematically analyse the takey impacts becommiss - appendix 2) to measure the social impacts. The key improdient that meeds to be sddressed is an inventory of social impacts.

#### 4. Recreation/Tourism Industry

In an attempt to diversify the sconay of Oregon, the fits supports an agreeming the sconay of the sconay of the sconard while the recreation/couries industry will not billy replace the sconard sconard sconard sconard sconard sconard sconard in this transition period. Sets in a sconard sconard sconard scate and fostend government will play a score part in this

An alternative which emphasized recreation opportunities could have served as a benchmark from which to compare jobs gained from the various alternatives presented in the plans.

#### S. Monitoring

Monitoring should be an especially inportant part of the final BIN plans. While the draft plans include provisions for monitoring of natural resources, it should also include provisions for monitoring of socia-economic conditions and for modification of the plan based on changes in these conditions.

6. Sunnary

Lif directions have addressed the acolo-reconcil impacts strength by Datr profested literastics. Did districts about decorption their analysis and discoursions in the final MTM/LIGS to include this base of the alternatives dislocated this vertex skills and resuplayment opportunities; decial impacts consistency in monitoring.

Please review Sconomic Development Department, Department of Forestry, and the State Economist responses found in Appendix 2 and Oregon State's University's Report for specific recommendations.

with high road densities (i.e., greater than 4 miles/equare mile); watersheds with high off-road vehicle use resulting in unacceptable environmental damage; and sensitive vilalife areas. (Coos Bay and Kiamath draft plans include this recommendation.)

- Road density objectives for other areas would likely vary based on decisions made in the comprehensive road management plans.
- 5. The State recommends that BIM attacpt to achieve a maximal andmittion (100) in open tool density over the next decade. This target may be difficult to achieve given the softwared ownership pattern of BIM lands. Novever, we encourage BIM to work together with adjacent landowners in an effort to accomplish this goal.
- The State recommends that BLN's road management program be modified as needed to address the State of Oregon's recommendations for limiting development in rural interface areas.

Each BIM district is urged to coordinate with adjacent landowners and others in the development and implementation of a comprehensive road management program.

#### M. <u>Special Plant and Tree Species.</u> How should BIM protect special status plant and tree species?

#### 1. Special Status Plant Species

EAF distriptions have listed plant species found on each district. The State commons EAF on its consistent to protect those plant species that are either state and/or federally listed on public lands under its quirediction. To continue protection volts keeping other species from bodry listed, the State Seleves that EAF should consider the recommendations noted bolow.

- a. Bit media to append the investory of its lands to identify all existing sites for lines and and an appendix a species including areas not currently altest for timber sele or harvest. But should evory with other state and federal and candidate species to best facilitate knowledge of habitst requirements.
- b. Prioritized management plans should be developed for special status plants that outline how particular specias will be protected, especially those located in land allocations that

L. Road Management. How should BLN districts/resource area manage their road networks to promote compatibility with resource uses.

Bit's western Despon road system is e valuable component of strappies overall transportation network. The road system serves the dilikane of Dregon by providing access for timber, fish end wildlike, and westersked management. EMX roads also provide numerous recreational opportunities and are essential for forest fire protection.

Realizing the importance of road management on federal lands, the State develops a position paper tilled, <u>State of Ormson</u> <u>Recommendation on BN/S mask Management Processn</u> (Note Appendix 1) We trust that BLM will consider recommendations presented in this paper when developing its final RMP/PISS.

The cost page research that ALM should develop comprehensive road management, banks, mark is, meddition to road maintenance and construction goals and objectives, ALM should address the various value of the should be addressed and the should be address value of security pressilly indexed by roads. These research are intervalied and road insequent place basis and be the framework in value to develop and secure place.

BLX districts have inventorisd their road networks and recognized the impact that these access routes have on natural resources. The district of the second second second second second second district the second second second second second second second second other creas. Novever, there seems to be no action plan to meet these bread objectives.

We commend the Salem District on its recognition that a comprehensive road management plan needs to be developed. They have made a commitment to develop a comprehensive road management plan soon after spproval of their RMP.

The following is a brief summary of our recommendations to BLM on road management.

- The State recommends that BLM continue to aggressively pursue funding for its road management program.
- The State recommends that a comprehensive road management plan be completed within the framework of the RMP/EIS or shortly after approval of the plans. (Note road management paper for suggested content of management plan.)
- The State recommends that a maximum 1.5 mile/equare mile road density objective (i.e., roads open to vehicular traffic) be instituted for: sensitive vatersheds; vatersheds

51

allow timber hervest and domeatic grazing. Emphasis should be placed on improving or restoring critical habitats rather than merely maintaining existing often degraded conditions.

- c. Long-term monitoring of special status species, especially listed plante, is essential in determining whether plant populations are recovering or decliming. Recent advances in technology should be used to develop monitoring program.
- d. Maintaining species at the level of minimum viable populations may not be sufficient to querathes survival over the long population is associating on the brink of allows catastrophs, therefore, population levels above the minimum ere recommended.

Bix districts in general should be complimented on their review of listed and other special status species. These epcies have been listed in the drift plans. Nonever, the Status special staresont his of the status species, through joint cost-sharing projects with the dregen comparison of Agriculture and other agencies. Additional comments on special plans species on be found in the Department of Agricultures and other species.

Yew Bark

Bair or not be Rectire yew there is a source of tendo which has been on the straining been formed to account of the source comparison with the formet Service is in the process of developing an ISF for managing Rectirg yew. Leads have been as the source of the source of the source of the source strategy is being used to guide BUM and the forest service on Facility yew hangegarm until the FIS is finalized.

We encourage BIM to carefully follow the interim guidelines for Pacific yew management in order to collect the maximum amount of yew bark feasible from current forest management projects

N. Tribal Concerns. How should BLM districts protect traditional Tribal gultural and spiritual sites?

Lands administered by DLM's Klamath Falls Resource Area traditionally wera utilized by the Klamath, Modoc and Shasta Tribes. The Siletz and Warm Springs Tribes used lands administered by the Sales DLM District.

The State supports the protection of identified Native American sites sacred to, or of cultural eignificance to, the various tribes mantioned above. The Tribes' cultural history contributes to the State's heritage and should be protected. BLM should, through close coordination with the Trizes, act to inventory, evaluate, and protect sites of cultural, religious, and historic value as required by factorial laws. As additional sites are located, BLM should alter its plans in order to protect them, while remaining sensitive to other uses of the lands.

 Standards and Monitoring. Does BLM have measurable standards and a comprehensive, aggressive monitoring program to determine whether plans meet short and long-term expected future conditions?

The suplementation of biological diversity/ecopyton management will mantate compresensive scalar diversity programs for each district, including a dedicated furning source in order to evaluate a bother the scheduled estivities are single minimized as per effective in meeting the expected future conditions and of destroining if activities are assing the effects identified in

Scorytes management and its siders on resources within the fromts environment is a long-rate investment. Research monitoring will be necessary in order to apply adaptive management on the ground. In a sense, eccessions management is an experienct requiring close evaluation and monitoring of thousands enditions.

In order for each NNO and IIS to stand sizes and mark the sate of publics and legal scruttry, it must include scandrads followed by a monitoring plan to measure results. <u>Scandrads motions</u> scandrads for the scandrad scandrads and the scandrads scandrad for this block are no methods for measuring the degree of compliance or attainment. The true julidial litms fast for support the scances management direction found within the RUFs.

Sife derif plans fall short of saming the State's exponsitions for degutes tandards and comprehensive sonicoring plans. Even though the plans note a need to include the three planes of alegent covered in the sonicoring socians. As an example, now vill the general solicity questions for socia-secondic affectiveness' of the fast for socia-secondic affectiveness'

Other questions BLM should address in their final plans include:

 Why aren't monitoring standards presented for each land allocation (i.e., 01d growth emphasis areas, General Forest, connectivity areas)?

54

diversity management will require a long-term Commitment in funding to test programs and practices which accomplish the expected future conditions.

The baseling should not be sectorarily linked to Add (remain and reduce). At this sequence that fair cossider establishing a find for density manegement activities in Old Growth Rephasis Amean that is sequentiarily as proposed in the General Toract more traditional harvesting as proposed in the General Toract the adjor gene (old Growth Rephasis Areas which should be the utility in providing aneware to critical vikilife/silvicaltural genetions through the application or research and monitoriny.

### III. DRAFT PLANS ORGANIZATION

The State agancies have found BLM's draft Resource Management Plans and Draft Environmental Impact Statements very difficult to review because of the way plans were organized. Some of the issues of concern to readers were:

- Difficulty in distinguishing the draft RNP from the draft EIS. For example, implementation standards were scattered throughout the documents.
- Lack of definable links between broad goal statements and specific actions (e.g., standards, guidelines, inventories, nonitoring, evaluation).
- C. Difficulty in identifying BLM plan policies in the RMPs.
- D. Lack of substantiation to support claims of consistency with the plans and policies of other agencies affected by the RMPA.
- E. Inadequate/incomplete tables of contents and indexes.
- F. Numerous errors in tables and incomplete data.
- G. Maps showing land allocations are too small a scale with few reference points to decipher where allocations begin and end.

The State encourages BIN to reorganize their finel plans to make them more readable to the public and land managers who will be implementing the final proferred alternatives.

- Why haven't the monitoring questions presented in district plans been tied to measurable management standards?
- Is a threshold level of plus/ninus 10 percent appropriate for changes in all resource outputs or inpacts to resources?
- Where are specific, measurable standards found in the districts/resource area monitoring plane?
- 5. Is there a tie between implementation and effectiveness which is necessary for meeting the expected future condition (s.g., ecosystem managesent)) Toos SUC have a long-range mark 100 years in order to meet these expected future conditions?

The State believes that ILM districts/resource area should develop nore specific standards and comprohensive monitoring plans. Of special note would be the Forest Service's approach to nontoring referitiveness and validation. We feel that vibrout Development of the service special state of the service RMSP/STS will not neet the public's expectations and legal challenges that the approviul face.

Annual Program Summary monitoring reports, being proposed by districts, are a positive way to allow the public an opportunity to track and assess the progress districts are making on implementing their plane.

P. Budgets. Hhat budget vill BIM districts need to carry out the preferred alternative? New should the districts react if a smaller budget allocation oncurs?

SLM districts project a need to increase their budgets in the new plans in order to neet inglesentation and nonitoring requirements. Due to the complexities of the plans and the new biological diversity approach proposed, the State agrees that more money will be needed for training personnel, research, implementation and monitoring.

If funding for intensive management practices under the current plans are any indication of expected future funding, the State is concerned that the new plans may not be inplemented. BLV's biological diversity is an experiment in land management which relies on many as yet unproven concepts.

With the uncertainty in past and present funding levels, the State recommends that BJM address the likelihood of funding for proposed actions and the impact of BLM's resources if expected funding does not materialise. The element in and by [tself States between a successful actionse. Biological

55

#### IV. FINAL COMMENTS

17. Final Configure In a faste of Oregin's Final Coordinated Response represents the two fastes of Oregin's Final Coordinated Response represents the draft prv/romsental Impact Statesents. Twelve states approximate the state this processing the state of the state of the state this processing the state of the state of the state this processing the state of the state of the and individuals, and oregon State Oniversity's Report were all considered when developing the State of Tegen's Final regioner.

The State will work with BLM districts and the State Office, between their draft and final, to help them better understand our recommendations presented in this document.

57

Appendix II

Individuals and Organizations Who Responded to the Draft Resource Management Plan

Western Oregon Resource Management Plans Common Comment Synthesis/Partial Responses

# Salem District Comments / Responses

# Individuals and Organizations Who Responded to the Draft Resource Management Plan

The following individuals and organizations responded to the Salem District Draft Resource Management Plan/ Environmental Impact Statement:

### Individuals

Achr, Michael Adams, A. Angelica Adams, Barbara Alexander, Ray Alexander, Sr., Richard P. Allard, William Allaway, David and Linda Allen, Donna L. Allen, Ronald R Alverson, Ed Amicarella, Joe Anderson, Betty C. Anderson, Garth Anderson, Lanny Anderson, Richard Anderson, Sherman D. Anderson, Wes Annin, Frank Anos, Ronald W. Apotheker, Steven R. Applebaker, Daniel Arthur, Rhea M. Austin, Steve Avers, Louis J. Baitaglia, C. Baldwin, Catherine A. Bare, Nancy Barendse, John Barnes, Mike Bate, Dale Battaglia, Leonard Bazarth, Carole A.

Bazor, Larry Beatty, Lew D. Beck, Beverly J. Becker, Barbara Becker, Jerry Bedard, Keith S. Beil, R.A. Bell, Talley R. Bennett, Doug Bentley, Lela B. Berg, Hank Bergman, Morris H. Berkland, John E. Berlik, Robert A. Bethell, James Bever, Bruce Billings, Floyd Billings, Sue Birch, Darwin L. Bishop, Dick Black, Wanda J. Blair, Robert E. Blanchard, C. Ralph Blanchard, Garv W. Blickensderfer, Rob Blowers, Joe Boan Ray Boeder, James R. Boehner Paul R Bolding, WM, H. Bond Belle Bondurant, Edward T. Borgeson, Mark Bornholdt, Mariana D.

Bowden, David L. Bowers, Sue Bowman, Larry E. Bowman, Suzanne Boysen, Larry Brager, Stephanie Brandin, Michael G. Brandis, Kristen Brandt, Eunice C. Brandt, Louise Joy Bridges, D. Brooks, Terry L. Brown, Larry Brown, Richard T. Brown William Brunner, Eberhard Brusse, Lori S. Brusse, Tim Buchanan, Hugh W. Buche, Harvey W. Buezynski, Aner Bunnell, Bernard Burkholder, Todd Burleson, Dyrol Butterfield, Andrew Bvers, Al Byram, June M. Calhoun, Glenn Callaghan, Shirley P. Canan, Joyce Carbaugh, Chet Carbaugh, James C. Carlson, Ernest F. Carlson, Priscilla

Carlstrom, A. L. Carrasco, Josafat G. Carter, Darrell S. Carter, Plaze B. Cavanagh, Ann W. Chaffin, J. L. Chapman, Drew Choate Donald Claflin Cliff Clark, Dennis Clark, Jack L. Clayton, Mark Cleland, Joanne Cobb, Larry E. Coblentz, Phillip D. Coblentz, Robert Cody, Denise Collins, Robert Comstock, Ronald Condo, Candis L. Conley, James H. Contrenas, Pam Cook, Harry L. Cooke, Boyd C. Cookingham, Craig Coonrod, V. Cooper, Chris Cooper, David L. Cooper, Kay E. Corbett, Tony D. Corence, W.G. Corkran, Charlotte C. Corkran, David Cornell, Jennie L. Cougre, David Covington, Donna Cronwell, Lynn Crumpacker, M.D., Nancy Culbertson, Gordon Cummins, Tyson G. Cunningham, Terry Curtis, Mrs. M. Joan Daniels, Bonnie J. Daniels, Kent Daniels, Richard C. Dart, Edward Dass, Archie Davey, Christopher Davis, Marty Davis, Michael Denker, Willow Denton, Jr., Gerald P. Devine, Dennis Diggs, Daniel H. Dobson, Wanda Dodge, Larry W. Donley, Jeromy

Dooley, Jr., Tevis Doppelt, Bob Dose, Joseph C. Dove, Jerry A. Dryden, Bill Dudek, Dana Dueber, Shirley Duenas, Jose M. Dulley, Michael Dunn, R.E. Dwire, Kate Earon, Robbie Elbaum, Daniel Ely, Ken Emerson, Mike Engelen, Ron Englebert, Dwight Evans, Larry H, Evans, Ron Evanson, Donald H. Exo, Kave J. Fagan, John Faris, Robert E. Faulke, Chris C. Fay, Dorothy A. Felix. Duane F. Fenel, Tom Fennimore, Keith Ferguson, Dave Ferris, Herb Ficker, Ursa Filson, Tom Fischer, Raymond H. Fitzgerald, Harold Fletcher, David Flippo, Melvin D. Flood, Dave Fluge, Michael Kent Fobes, Richard Ford, Lynn S. Forsythe, Margaret G. Fosdick, Joel Foster, Grea Freed, Judith Freimark, Robert M. French, Beverly French, R. Bruce Freres, Jr., Robert Frey, Betty J. Frey, Gordon Friesen, Arvis Fromcke, R.D. Furbee, Greg Galasso, Robert Gallagher, Scott Garcia, Frank Gardner, Brian

Garlbay, Luis A. Gass, Jr., Hubert A. Gatchet, Elmer Geis Gretchen Geisinger, Jim Gentner, Robert H. Giamier, Matthew R Giesy, Betty Giesy, Reid Giesy, Wayne Gilmore, Larry A. Girtz, Jr., Henry Glick, Ed Goodard, Jr., Melvin Godsey, Leo Golden Rod Gonez, Juan F. Good, Michael Gore, Archie Gould, Charles Graimini, Debra Graves, Sandra Greacen, Rob Sant Greene, Sarah E. Greenip, Mark Grier, Norma Griffen, Garv Groshona, Clyde Gross, Gene Groves, Ronald H. Guinn, Bob Gurney, Aaron Guth, Candice Hager, Ronda L. Hall, Edward Hall, Frank Hall, M.D., Clifford A. Hamilton, Steph C. Hamlin, Cecil F. Hamlin, Charles E. Hammond, John L. Hansen, Greg Haram, Gerald Harbison, Paul B. Hargitt, Joel M. Harrington, Michael Harris Edward C Harris, Tom Harsham, John L. Haslett, Dale Haslett, Loleta Hawkins, Jr., Glen F. Hebisen, Mark J. Hefley, Glenna Heiken, Doug Heimuler, Dale B. Hemelek, John

Appendix JJ-2

### Individuals and Organizations Who Responded to the Draft Resource Management Plan

Hendrix, Fred A. Hepler, Fric Hernandez, Doug Hernandez Fidel Hernandez, Irma R. Hernandez, Roberto Herzberg, Lee Hessel, Lori Higgins, PH.D., Dennis V. Hill, Larry W. Himes, John Hoagland, Larry Hoefling, Pam Hoffmann, Dieter Holce, Wilford E. Holder, Terry Holt, Jim Homann, Lora G. Hopper, Edwin A. Horn, S. R. Horning, George E. Horvath Fric Hostetter, Robert D. Houston Dan Howell, Philip Hubbard, Mark Huber, James E. Huber, Jeffrey S. Hughes, Roy H. Hulscher, Deborah Hultberg, Devona Hunt, Lee O. Hutchins Grant M Hyatt, Harold Irwin, Larry L. Irwin, Tab W. Isam, Bobbi Ivanoff, David E. James, Frank James, Jim James, Jim A. Jenson, Marvin Jitenburo, Aimon Johnson, Ben Johnson, Cliff Johnson, James J. Johnson, Larry Johnson, Phillip M. Johnston, Linda K. Johnston, Robert B. Johnstone, Jimmy P. Jones, Delna Jones, Judy Jones, M. Jorgensen, Robert G. Kaiser, Stan Kale, Dr. Keith

Kapstein, Brian Kauffman, Kip Kave, Aileen P. Keep, Scott R. Kelly, Craig Kelly, Kent S. Kenline, Carla Kenline Shawn Kershaw, J. Ketcham, Chris Ketcham, Paul Keyser, Glen Kieft Dan Kimzey, Louis King, Dan Kina, Inae King, Michael R. King, Ron Kinney, Gisela Kirk, Phyllis Kish, Garv Klips, Abigail Knox, Roger Koch, Daniel E. Koos, John E. Kraechenko, Anatoly Kraxberger, Duane J. Krebs, Ronald Krosman, Albert Kujala, Jeff Kundert, Ralph V. Kzaochenko, Sergei Lacoste, Kenneth Lacy, Robbin Lafontaine, Lee Lail, Donald G. Lake, Lvnn Lambert, Robert L. Lang, Bill Lang, J. Langlois, Edward Larkin, Dan Larson, David Layman, Ray E. Lee, Arlene Leppin, Art Lewey, Frank Lewis, Julie Light, Bill Linglebach, john Linhart, Louis J. Linville, Peagy Littleiohn, Garv Liverman, Marc Livingston, Charles Loback, Jack Lohnes, Jonathan

Love, H. Robert Lowe, John E. Lulay, Don Lundeen, Teresa J. Lundmark, Greagor K. Lusk, Shirley Lusteneo, Andy P. Lytle, Dee Mabry, J. Machado, Craig Macklin, Robert L. Madias, Michael Mahon, Robert Maltsberger, Josh Manning, Tollie R. Manuel, John Marcus, Lew Marsh, Donna Marsh, Norm Martin, Almos F. Martin, Bradford J Martin, Lester F. Masters, James Maxey, Rhonda S. Maynard, Larry Maynard, Robert L. McBeth, Sr., Curt McCallister, Tim McCanna, Jemae L. McCauley, James E. McClellan, Chris McClellan, James J. McClellan, Thomas D. McClure, Janet L. McClure, Jim McCollunn, Pat McCormick, Charlie McCracken, Joseph W. McEneav, Jenv McGhehev, John McGinnis, Michael O. McGraw, Deborah McGuire, Glen J. McGurrin, Joseph McHarv, Janet McKeel, John McKellar, Robert H. McKenzie, Katheryne E. McMullan, Darrel McVay, Rocky Mead, Ronald H. Melendez, Esteban Mench, Don Mendenhall, Nick Mercier, Michelle Merrifield, Kathy Metcalf, Roger

Appendix JJ-3

Meurer Chris Mickelson, Scott Miller Bo Miller, Gerald Miller Joseph I Miller, Lee E. Miller Mark Mills, Allen Mills, Dennis I. Miner, Jack Minle, Mitch Mitchell, Jerry Mohr. Brian Mohr. Michael Moore, Helen Moore, Murrell Moore Zephyr Moore, Jr., James F. Morehead, Roland J. Morris, Loren Morris Mary Morris, Virail Morse Rollin F Mortenson, Paul Morthland, D. W. Muir, M. D., Warner R. Mullen, Nita Munroe, Thomas C. Muntz, Charla Nelson Donald P Nelson, George G. Newbold, Robert F. Newland, C. E. Nicholls, Jack Nicholson, Sharon L. Nicklous, Randy Nisbet, Robert A. Nixon, Farl Noble, Jerome L. Noble, Synthia Norberg, John R. Nord, Timothy A. Nordstrom, Lars Nystrom, Amy Nystrom, Todd O'Brien Robert O'Connor, Winifred E. O'Dell Ronald O'Neill, John O'Shea, Clare E. Oakes, K. William Oglesbee, Devin Olsofka, Anne Orr, Paul O.

Ort Dan Orton, Shane Osborne, Donald A. Ostertag, George Owre, Jess Parchman, Mary C. Parker, Todd Parren, Jr., Robert Parsons, Jerry Parsons, Rick Parsons, Tom Pavne, Mike Pedder, Genevieve Pedder Sr. Harold Pelletier, Mike Pelletier, Robert Peoples Thelma Percell, Gary Perry, David Petersen, David J. Petersen, Grea L. Peterson, Donna M. Peterson, Everett Peterson, Gene Peterson, Linda J. Peterson, Nancy Petreguin, Erin Phelan, Jeanette Phillips, Julie Phillips, Mark E. Phillips, Vicki Pickens, Penny Pierce, Lona Pillow, Mrs. L. Pio. Ron Plaisance, Jean M. Poddar, Bhagwati Pointer, Sr., James R. Pollock, Doug Posekany, Dick Potts, Reuben L. Powell, Maurine K. Powne, Bob Pratt, Robert W. Primbs, K.C. Procarione, Richard Pugh, Dean Pugh, Eleanor A. Puls, Chris Purvis, Robert C. Quinn, David Rainwater, Brian Rana, Avis Randall, Mike

Rasmussen, Dana A. Ray, Richard A. Redington, Robert A. Reisch, Dixie M. Rendar, Byron Renoud, Dick Richard, Paul Richardson Bruce Ricohermoso Fric Roberts Barbara Robertson Gratia Robison, David Rogers Wilma Romans, Roger Rose B L Ross Chris V Ross, J. Roth, Christopher N. Rowe, Blake S. Rowley, Phil Rummel, Robert E. Runion, M. Gene Runvon, B. N. Rupers, Barbara Russo, Ronald J. Sacher, Art Sallak, William F. Salvino, Michael D Sanchez, Medardo Sanders, Johnnie E. Sann Russ Sawyer, Lee Scatterday, Glen A. Schact, Lacretia C. Schaffer, A. G. Schenck, Franklin Z. Scheusner, Roger Schindler, Paul P. Schmid, Leerov J. Schmidt, J. Melvin Schmidt, Mandy Cole Schneider, Douglas A. Schneiter, Wanda Schumaker, Matthew Scott, Henry D. Searle, Mike Sedlak Jerry Sehilke, Debbie Seiber, Darrel Seipert, Scott Shaffer, Mike Shaffer, Paul Shambo, WM. Sharp, D. E.

### Individuals and Organizations Who Responded to the Draft Resource Management Plan

Shaw, Christy Shaw, Richard V. Sheets, William D. Sheffer, Russell M. Shepard, Rod Sherman, Fred Shiolas, Tom Shipley, Avery Shrader, W.R. Shrover, Jr., George Silovsky, Gene D. Singleton, Henry Sinkin, Larry Skidmore, R. Sloan, Bob Slupp, Don Smith, Clifton T. Smith, Dwayne Smith, Ervan B. Smith, Fred Smith, Fred C. Smith, Karen L. Smith, Rena C. Smith, Thomas Smith, Thomas A. Smith, Waldo Snedigar, Bobbie Snider, Kile E. Sommers, Kathy Sparks, Billie Sparks, Jerry G. Spears, Glenn Spero, Johnathan Springer, Donna Springer, Gary St. John, Emily Stark, Carol Steadman, Charles T. W. Steele, Rav Steinbacher, Robert A. Stellflug, Susan Stensrud, Charles A. Stevens, Martin Stewart, Jeff Stolsig, John A. Stonehocker, Tom Stonex, Richard G. Stout, B.B. Stout, Floyd M. Strawn, Kim Streeker, Steve Stross, Barbara Sturges, Reyntha O. Sutherland, Bill

Svoboda, Milan Swanson, John Swindells, William Sylvester, Ron Syrowski, Richard Tapp, Chris Tate, Jeffrey A. Taylor, Steven R. Teiada-Flores, Miquel Tempel, M. D., Patrick C. Terry, Steve Thomas, John Thornton, Cliff Tichenor, Steven Timms, Gene Tingley, Emma Todd, Wes Tolman, Beverly Touhey, Charlotte Truax, Bill Tuma Joe Turner, Dr. David P. Turner, James D. Turner, W. E. Turpin, Melvin W. Unquera, John Van Vo, Vinh Vander Schaaf, Dick Vanderback, Wilbur VanLeeuwen, Rep. Liz Varley, Tom Vaughn, Ronald Vermouth, Jon Verser, Mike Vique, Charlie Vincent, David Vinton, Jason Volz, Lerov J. Von. Darrel Vonbergen, W. R. Voncannon, Mike Voytek, Bernie Vovtek, Robert J. Waldron, David Wall, Carolyn Walters, Melvin Ward, Jova Warner, Dean A. Warren, Robin Waters, Joan Webb, Steve Weber, John W. Weeke, Charles A. Weinburg, Dennis

Welch, Barry R. Wells, Vern L. Wennstrom, Jerry West, David M. Wheeler, Floyd Wheeler, Jason White, Donald Paul White, Gavle Whitehead, Ron Whitloin, Richard Whitlow, Ellis Whitten, Noves Widman, Bill Wiedeman, Michael W. Willer, Chuck Williams, Daniel Williams, Donald H. Williams, George W. Williams, King Williams, Mitch Wilson, David H. Wilson, Esther Wilson, Katherine Wilson, Keith Wilton, Bryan A. Winans, Linn Winslow, Jim Winters, Sam Wischnofske, Bill Wischnofske, John Wise, Stacy Wistar, Gil Witt, Bradlev K. Wodicka, Kristina Wohlers, Mildred Wolf, Mike Wolf, Thomas M. Wonderling, Darwin Wooley, Joyce Wootan, Ross Wright, Bruce Wright, Patrick D. Wirght, Steven L. Wroncy, Jan Wyscaver, Elden Yazzolino, Brad York, Cary Young, Richard Youngberg, Bill Younger, Glenn Zabo, Russell Zahn, E. Zika, Peter F.

Organizations

Alsea Tree Farm Alsea Valley Alliance American Fisheries Society Applegate Roughriders Associated Oregon Loggers Association of O&C Counties Audubon Society of Corvallis Audubon Society of Portland **Benton County Board of** Commissioners Tillamook County Board of Commissioners Boise Cascade Boise Cascade Timber and Wood Products Division Brazier Forest Industries Chemeketans Citizens Natural Resource Group City Council, City of Drain City of Salem Clackamas County Board of Commissioners Coast Range Association Columbia County Board of Commissioners Defenders of Wildlife Diamond B Lumber Company Environmental Protection Agency, Region 10 Forest Resource Services Forestry Sciences Laboratory Freres Lumber Co., Inc. Friends of the Sandy River Hampton Tree Farms, Inc. Hull-Oakes Lumber Company Linn County Board of Commissioners Linn County Parks and **Recreation Department** Linn County Tourism Coalition Longview Fibre Company Mary's Peak Alliance Mazamas McMinnville Water and Light Miller Timber Services Mt. Hood Corridor Community Planning Organization National Wildlife Federation Native Plant Society of Oregon NCASI North Coast Chapter NPSO

Northwest Forest Resource Council Northwest Coalition for Alternatives to Pesticides Office of the Governor Oregon House of Representatives Oregon Legislature Oregon AFL-CIO Oregon Forest Products Transportation Association Oregon Logging Conference Oregon Mycological Society Oregon Natural Resources Council Oregon Raptor Center Inc. Oregon State Senate Pacific Northwest Four Wheel Drive Association Public Lands Foundation Salem District Advisory Council Sierra Club, Columbia Group Siuslaw Timber Operators Association Southern Oregon State College Starker Forest, Inc. The Nature Conservancy. **Oregon Field Office** The Pacific Rivers Council The Wilderness Society The Wildlife Society. Oregon Chapter Tillamook County Board of Commissioners Timber By Products, Inc. Timberline Ski School Trout Unlimited Tualatin Valley Chapter of Trout Unlimited U.S. Bureau of Mines U.S. Fish and Wildlife Service U.S. Forest Service West Oregon Timber Supporters Western Forest Industries Association Weyerhaeuser Whitten Logging Company Wildlife Too Willamette Industries Inc. Willamette Industries, Philomath Division Willamette Timbermen Association, Inc.

Western Oregon Resource Management Plans - Common Comment Synthesis/Partial Responses

# Western Oregon Resource Management Plans Common Comment Synthesis/Partial Responses

# **Table of Contents**

ScopingJJ-9
State Director GuidanceJJ-9
Purpose and NeedJJ-9
Budget AssumptionsJJ-9
Organization of Document, Editing, and Maps JJ-10
Planning Schedule
Coordination With Other Parties
Goals and Objectives
The Preferred Alternative
Legal Consistency of Preferred AlternativeJJ-12
The No Action Alternative
New Alternative ProposalsJJ-13
Impact Analysis Generally
Air ResourcesJJ-16
Soils/Site Productivity
Water ResourcesJJ-19
Biological Diversity
Old-Growth ForestJJ-25
Ecosystem ManagementJJ-27
Vegetation - Including Special Forest ProductsJJ-27
Riparian Zones
WildlifeJJ-31
FishJJ-36
Special Status Species
Spotted OwlJJ-43
Special AreasJJ-45
Cultural Resources
Visual Resources
Wild and Scenic Rivers

RecreationJJ-4	JJ-48
Timber - Management Direction/Practices JJ-4	JJ-49
Timber - Productivity/Sustainability/Forest HealthJJ-5	JJ-51
Timber - ASQ/PSQJJ-5	JJ-52
Timber - Inventories	JJ-54
Timber - Demand, Supply and Market EffectsJJ-5	JJ-55
Energy and Mineral Resources JJ-5	JJ-55
Land TenureJJ-5	JJ-55
Access JJ-5	JJ-56
RoadsJJ-5	JJ-56
Fire JJ-5	JJ-57
Socioeconomic Conditions JJ-5	JJ-57
Rural Interface Areas	JJ-61
Consistency With Other Agency Plans and ProgramsJJ-6	JJ-61
Requirement for Further Environmental AnalysisJJ-6	JJ-62
Use of the Completed Plan JJ-6	JJ-62
Monitoring JJ-6	JJ-63

# Western Oregon Resource Management Plans -Common Comment Synthesis/Partial Responses

Many of the comments on the adequacy of the Draft RMP/EIS addressed specific elements of the preferred alternative that are no longer components of the proposed plan. Where the proposed plan had a corollary element, our responses to such comments treated them as if they applied to the corollary allocation. The most common example is comments on Old Growth Emphasis Areas. Our responses to those comments treat them as applying to Lats Successional Reserves in the proposed plan (PRMP).

The acronym "SEIS", used in comment responses, refers to the 1993 Supplemental EIS on Management of Habitat for Late-Successional and Old-Growth Forest Related Species Within the Range of the Northern Spotted Owl. The term "FEMAT report" refers to the 1993 Report of the Forest Ecosystem Management Assessment Team, titled Forest Ecosystem Management: An Ecological, Economic and Social Assessment.

# Scoping

COMMENT: The BLM and State of Oregon should convene an independent commission to study the specific ecological and administrative problems arising from the current ownership pattern.

**RESPONSE:** Funding for such an initiative would have to be authorized by the Congress and the state legislature. Such a proposal is beyond the scope of the RMP.

# State Director Guidance

COMMENT: The State Director Guidance for the planning process should be amended to permit changes in the preferred alternative.

RESPONSE: The State Director Guidance, which was issued through a series of instruction memos during the years 1988 through 1992, did not directly address the formulation of the preferred alternative, and did not preclude changes in that alternative. The state director never intended it to formally guide that aspect of the process and it did not direct any discretionary allocations or constraints in the preferred alternative. It has also not guided development of the PRMP.

# **Purpose and Need**

COMMENT: The RMP/EIS should acknowledge the purpose of the O&C Lands, which is to be managed for the stability of local communities and industries through the production of timber, under the principles of sustained yield, and should also reference important related judicial decisions.

**RESPONSE:** Chapter 1 has been expanded, but citation of specific judicial decisions seems unnecessary to the function of the RMP.

COMMENT: The documents never spell out clearly what decisions will be made as a result of this analysis.

**RESPONSE:** The chapter 1 discussion, Planning Process and Criteria, refers to Appendix D which lists the major questions to be addressed through planning. The answers to these questions will be the decisions.

# **Budget Assumptions**

COMMENT: The Draft RMP does not include a cost analysis of the Alternatives. It should include costs of all aspects of timber sales, such items as road building, sale preparation, monitoring, site cleanup, mitigation of environmental impacts and restoration. Higher management costs would undoubtedly occur if the Preferred Alternative were adopted.

RESPONSE: Ecosystem management focuses on the many activities required to manage a specific geographic area. This type of management is different from traditional program-based management which focuses on costs and units of accomplishments in each individual program. For this reason cost comparison is limited to comparison of the total costs of the No Action alternative and the PRMP (See chapter 2, Costs of Management).

COMMENT: Consider the unstable nature of federal funding of forest management activities and the difficulties of securing this funding.

RESPONSE: The introduction to chapter 4 has been modified to acknowledge this.

COMMENT: How does BLM expect to obtain funding to implement ecosystem management with reduced harvest levels and higher predicted costs?

RESPONSE: We expect the Congress will be able to look beyond the traditional measure of timber sales, understand the importance of ecosystem management, and appropriate adequate funding for its successful implementation.

COMMENT: Evaluate the impact of lower funding levels on programs and outputs, including mitigation and monitoring. How will accountability for funding mitigation and monitoring support be verified?.

RESPONSE: Since the essence of ecosystem management is balance, reduced funding levels would affect all programs and outputs proportionally. Mitigation and monitoring are considered to be part and parcel of timber sale and other implementation costs. In the priority setting process, managers will ensure the integrity of program balance, including mitigation and monitoring in the budget.

COMMENT: Review historic silvicultural plans, required budgets, approved budgets, activities conducted, and reasons for the differences.

RESPONSE: Much of what is requested demands an analysis of political decisions made at high levels of past administrations and/or during legislative deliberations in Congress. Although the analysis would make an interesting if lengthy article, we believe it would suggest little about how such deliberations and decisions will come out in the 1990s.

# Organization of Document, Editing and Maps

COMMENT: It was difficult to distinguish the draft RMP from the draft EIS. For example, implementation standards were scattered throughout the document.

**RESPONSE:** Chapter 2 has been reformatted to clearly display proposed objectives and link them to management direction for each resource.

COMMENT: Avoidance of acronyms would make the document more readable.

RESPONSE: The use of acronyms has been reduced.

COMMENT: On the maps more geographic places and towns should be shown and named, more streams named, and secondary roads indicated.

RESPONSE: The level of detail of geographic naming was limited so as not to clutter the maps.

COMMENT: Maps showing land allocations are too small a scale with few reference points.

RESPONSE: A reference grid has been added to the new PRMP maps. The scale for PRMP maps is enlarged and is considered adequate for an environmental impact statement. For more detail, see maps available for review in the district office.

Appendix JJ-10

Western Oregon Resource Management Plans - Common Comment Synthesis/Partial Responses

# **Planning Schedule**

COMMENT: The final RMP/EIS and Record of Decision should not be completed before completion of Endangered Species Act consultation.

RESPONSE: We consider consultation on our resource management plan already accomplished by the consultation and resultant biological opinion from the Fish and Wildlife Service on the SEIS. Additional consultation will occur as project planning follows the resource management plan.

COMMENT: The deficiencies of the draft plan warrant BLM developing a revised or supplemental draft before proceeding to the final stage.

RESPONSE: BLM, with the Forest Service, prepared a Supplemental EIS on Management of Habitat for Late-Successional and Old-Growth Forest Related Species Within the Range of the Northern Spotted Owl (SEIS).

### **Coordination with Other Parties**

COMMENT: If other federal lands are the key to success of an alternative, identify the related coordination and cooperation planned.

RESPONSE: Such coordination is addressed in the SEIS Record of Decision.

COMMENT: The Confederated Tribes should be contacted for review of any activity permanently altering the land, minerals, vegetation on, or access to their aboriginal lands. The tribal office should receive copies of environmental assessments, FONSIs, EISs, and other notifications of actions.

RESPONSE: Memoranda of understanding, currently under development with tribal governments, will identify which official BLM documents they should receive.

### **Goals and Objectives**

COMMENT: It was difficult to identify plan policies in the RMPs. The RMPs should identify the expected future condition.

RESPONSE: Explicit PRMP objectives have been added for each topic in Chapter 2, to address these concerns.

COMMENT: There should be a stronger link between the plan's broad goals and the specific actions that will be undertaken. In general, standards and guidelines need to be established.

RESPONSE: The objectives that have been added for the PRMP provide that link and, along with management actions/direction, equate to standards and guidelines.

### The Preferred Alternative

COMMENT: A table showing the acreage in each land classification would help the reader determine the significance of restricted areas.

**RESPONSE:** Allocations overlap so any table oversimplifies. A table, however, has been included in appendix BB.

COMMENT: The RMP should use a watershed approach to land resource management.

RESPONSE: The SEIS decision, which has been incorporated into our PRMP, details a four iler approach to land resource management: regional, physiographic or river basin, watershed, and site-specific or project level. Under this approach, analysis starts at the watershed level. The planning units will be physiographic province or

river basin, consisting of a number of watersheds. Watershed-based planning will be implemented and, over time, the federal agencies including the BLM will switch from existing planning units to the provinces or modify the boundaries of current planning units to be more compatible with the watershed-based approach.

COMMENT: BLM's long-term projections are unreliable due to the vagaries of time and changing political and economic agendas. Adoption of any alternative should be a short-term action only.

RESPONSE: We recognize that the plan adopted will be replaced by another plan within 10 years or so. Yet, only in the long term can we attain many of the plan's key objectives, so much of the plan's focus remains long term.

# Legal Consistency of Preferred Alternative

COMMENT: The draft plans have not explained how ecosystem management in the preferred alternatives is consistent with BLM's legal mandate for O&C/CBWR lands, including its community stability requirement.

RESPONSE: The SEIS Record of Decision addresses this, and discussion has been added to chapter 2, Purpose and Need, of this PRMP/FEIS.

COMMENT: The preferred alternative makes limber production the residual rather than the dominant use, because lands are first set aside for riparian and other uses, and the residual land is further managed for old growth restoration. This subservient position for timber violates the O&C Act.

RESPONSE: Management of these lands under the O&C Act mandate to provide a sustainable level of timber production must also be reconciled with other laws such as the Endangered Species Act and the Clean Water Act. The need of the local communities and industry for a stable timber supply is certainly of foremost concern in the management decisions for the O&C lands. The selection of the preferred alternative or PRMP is our attempt to manage the O&C lands in a responsible manner. Such management is intended to allow as high a level of sustainable timber supply as possible without risking further drastic curatiliments in the timber supply in the future due to the requirements of myriad other laws through which the BLM must chart its course. The mechanical PSQ calculation hierarchy may make it appear that timber production was the last concern in the decision-making process. This does not mean, however, that it was subsidiary to other uses of the timber lands.

COMMENT: Since the Alternative A level of riparian protection meets legal requirements, selection of that level of riparian protection would be most consistent with the O&C Act.

RESPONSE: The level of riparian protection included in the PRMP was selected not only to meet current legal requirements, but also to promote the goals of watershed protection contained in the O&C Act and to provide sufficient protection to reduce the potential for listing of aquatic species as threatened or endangered. Taking into consideration the anticipated benefits to the quality of watersheds in the O&C Act, it does not necessarily follow that the alternative with the least riparian protection allowed by law is the "most consistent with the O&C Act."

COMMENT: Lowering the minimum harvest age by releasing arbitrary constraints on it would seem to be most consistent with the O&C Act, particularly considering the difficult timber supply situation.

RESPONSE: While the O&C Act does not set "arbitrary constraints" one way or the other about the rotation age or minimum harvest age of the timber, the purposes of the O&C Act in providing a long term sustainable timber supply may be adversely affected by lowering the minimum harvest age. The level of sustainable harvest over the long term could be reduced if the minimum harvest age is significantly lowered below the age of the culmination of mean annual increment. Intensifying harvest activities of the lands included in the GFMA by lowering the minimum harvest age could also have adverse effects on the quality of watersheds on the O&C lands. Such results cannot be considered as "most consistent with the O&C Act." Western Oregon Resource Management Plans - Common Comment Synthesis/Partial Responses

The environmental impacts of harvesting much younger trees must also be considered. Lowering the minimum harvest age in the GFMA could have significant adverse impacts on the ability of protected species such as the northern spotted owl to disperse throughout their range, and possibly cause the BLM to violate the Endangered Species Act.

COMMENT: The exclusion of O&C forest land from exchange for lands to be managed for single use management purposes relative to listed species appears to conflict with Section 7(a)(1) of the Endangered Species Act.

**RESPONSE:** Congress in Section 7(a)(1) did not direct the Secretary to ignore the limitations in statutory authorities for other Interior programs when it directed the Secretary to use these authorities to further the purposes of the Endangered Species AC. The O&C Act requires those lands to be primarily managed for timber. The BLM would violate its statutory authority under the O&C Act for the management of these lands if we were to exchange O&C timberlands for property Intended for use primarily as wildlife habitat. See Headwaters v. BLM, 914 F.261 174 (9th Cir., 1990). Thus, the proposal to exclude the O&C lands from exchanges for lands intended for purposes other than multiple use does not conflict with the promotion of conservation of listed species under  $S(T_0)(1)$ , since that section does not require agencies to violate their existing statutory authorities to accomplish its purposes.

### The No Action Alternative

COMMENT: The No Action alternative should be no activities.

RESPONSE: It is well established that in land use plan EISs by federal land management agencies, the No Action alternative is a continuation of the existing plan. According to the Council on Environmental Quality in an action updating a land management plan where an ongoing program under existing legislation is taking place, the "no action" alternative is the alternative of "no change" from current management direction or level of management intensity. "To construct an alternative that is based on no management at all would be a useless academic exercise." (Answer to Question 3 of CEQ's "NEPA's Forty Most Asked Questions", 46 Fed. Reg. 18026 (Mar. 23, 1981), as amended.)

COMMENT: Note the current level of survey, monitoring and inventory which is done regularly.

RESPONSE: Monitoring under the current plan is described in Oregon State Office Manual handbook H-1734-1, 162 pages long. Survey and inventory procedures are equally detailed, by resource. Copies of these procedures are available for review in the Salem district office.

# **New Alternative Proposals**

COMMENT: Assess alternative harvest priorities that maintain more options for the "old growth" in the GFMA. Include alternatives that rely more on partial cuttings.

RESPONSE: PRMP harvest priorities in the GFMA have been proreted so most old growth there would be intact after the first decade. Partial cuttings (including thinning and density management) have been incorporated into the PRMP to the extent consistent with ecosystem management and timber management objectives.

COMMENT: It is recommended that BLM add a fisheries emphasis alternative. It would be based on the Alternatives for Management of Late Successional Forests in the Pacific Northwest.

RESPONSE: An integral component of the PRMP is fisheries emphasis.

COMMENT: Evaluate the effects of longer rotations and higher minimum harvest ages on all lands administered by BLM.

RESPONSE: Sensitivity analysis of Alternative B in the Draft RMP/EIS looked at 150-year rotations. Sensitivity analysis of the draft PA looked at no harvest below culmination of mean annual increment.

COMMENT: Develop and analyze other alternatives which retain biologically significant old growth stands while still producing economic opportunities.

**RESPONSE:** Alternatives C, D and E and the PRMP, and all other alternatives analyzed in the recent SEIS, all do this to varying degrees. We do not believe adding more such alternatives would be particularly useful.

## Impact Analysis Generally

COMMENT: A 10-year short-term impact time frame is not equally appropriate for all resource categories. Consider varying according to the life spans of affected biota.

RESPONSE: The 10-year period was selected as the end of the period before the RMP is most likely to be revised. Keying to the life spans of affected biota is more relevant to a project EIS, such as for a dam or oil and gas leasing. Where available information suggest that intermediate term impact conclusions would be substantially different than the trend implied by short-term and long-term conclusions, that has been acknowledged.

COMMENT: Assess spatial feasibility of the harvest plan in future decades.

RESPONSE: A major constraint on spatial feasibility in BLM's checkerboard ownership pattern is harvest activity on other ownerships, particularly private land. Future harvests on private lands are often not the subject of long-term plans, often proprietary even if plans exist, and subject to rapid change due to market conditions, changes in ownership and other business considerations. Even spatial feasibility of the 10-year scenario is speculative, given these considerations, and wust be revisited during annual timber sale planning. The elaborate exercise entailed in extending the 10-year scenario out several decades would prove little.

COMMENT: In some parts of the document, private lands are excluded from consideration, while in others BLM appears to be using private lands for mitigation.

RESPONSE: In no case does BLM suggest that it can control activities on private lands, except for the indirect control that may occur where specific access across BLM-administered land may be denied due to overriding environmental constraints such as the Endangered Species Act. Expected management on private land, however, is sometime cited as providing certain consequences, for example, adequate elk forage.

COMMENT: Identify where private land management is hindering the achievement of ecological objectives.

RESPONSE: Our assumption is that all private forest management, whatever it is today, may become shortrotation intensive forest management. That is the basis for all cumulative effects analysis. BLM's ecological objectives reflect that assumption.

COMMENT: Soil erosion, watershed degradation, stream sedimentation and forest habitat destruction must all be analyzed with adjacent lands factored in.

RESPONSE: Soil erosion (soil loss as distinguished from stream sedimentation) is a site specific concern; cumulative effects of soil loss with other ownerships are not relevant to BLM's management decision. The balance of these concerns are addressed broadly in the EIS and will be more specifically addressed in watershed analyses. Western Oregon Resource Management Plans - Common Comment Synthesis/Partial Responses

COMMENT: Consideration for catastrophic loss should be factored into the plans.

RESPONSE: Projections of catastrophic loss have been explicitly factored into the proposed PSQ and into analysis of effects on old growth. Adaptive management will address the locally unpredictable dimensions of catastrophic losses.

COMMENT: BLM has not done a risk analysis and developed contingency plans for OGEAs and CAs that potentially could be destroyed by a catastrophic event.

RESPONSE: As is discussed in Appendix O of A Conservation Strategy for the Northern Spotted Owl (USFWS 1990), the original habitat conservation areas suggested in that document were distributed so as to hedge against catastrophess that could cause regional but not total extinction of the spotted owl. The late-successional reserve system is similar. The Draft Recovery Plan and the SEIS both specifically address catastrophic loss of habitat. The dispersal of connectivity diversity blocks will also function as a hedge against major ecosystem impacts from catastrophic events. Risk analysis was incorporated into the regional SEIS. Confingency planning would have to be based on a multiplicity of "what ifs." We consider it more relevant to adapt our management as appropriate after a specific catastrophic event occurs.

COMMENT: The environmental costs of relying on foreign, non-sustainable resources for forest products has been overlooked. The plan also ignores the other environmental costs -- higher energy consumption, increased CO<sub>2</sub> emissions, accelerated depletion of nonrenewable resources -- of relying more on substitute building materials

RESPONSE: Assessment of the environmental costs of substitute sources of timber or substitute building materials would entail much conjecture about international markets and is beyond the scope of a single Resource Management Plan EIS. We are aware, however, of some regionwide analyses of this topic, and discussion of them has been added to chapter 4, Socioeconomic Conditions.

COMMENT: Identify the economic, recreational, commercial and aesthetic values of key wildlife groups or species.

RESPONSE: Recreation and aesthetic values are not distinguishable and are incorporated in the EIS sections on recreation. Stratification of values by key wildlife group or species is not practical due to lack of cornsistent, comparable sets of data. Some economic and commercial values of game animals and fisheries have been indirectly captured through the analysis of recreation-dependent and fisheries-dependent personal income and employment. We recognize that these analyses do not capture all of the values associated with key wildlife groups or species.

COMMENT: Wildlife tree retention causes increased operational costs and safety risks, which have not been adequately analyzed.

RESPONSE: In the PRMP, a series of stand structural classes have been designed to meet a variety of resource management objectives and to produce stands with desired characteristics over time. An integral part of the structural class is retention of snags and green trees. Worker safety would not be compromised to achieve resource management objectives. Retention of snags and green trees for wildlife or other objectives does increase operational costs as compared to the complete harvest of stands. However, average costs for snag and green tree retention under the PRMP would not be expected to be much different than costs required to complete sheltewoods, perform overstory removals and partial cut harvests while retaining wildlife trees under the plan for the 1980s.

COMMENT: Identify the cultural and subsistence needs of Indian tribes or nations and how well the preferred alternative meets these needs.

RESPONSE: The identification of the "cultural and subsistence needs of Indian tribes or nations" at any point in time is a difficult undertaking. Each tribe or nation may define these needs quite differently. These needs change over time as does the situation in which Indian tribes or nations find themselves.

Appendix JJ-15

We intend to take the needs of Indian tribes or nations into consideration. However, the identification of these needs is of necessity a shared responsibility. Therefore, we and the tribes must jointly develop a process whereby information concerning the interests and needs of each tribe or nation is shared. The Memorandum(s) of Understanding presently in development with the Confederated Tribes of the Siletz, Grand Ronde, Warm Springs, Coos Bay, Lower Umpqua and Siuslaw constitute(s) an important step in this process of information sharing.

COMMENT: If helicopter use is an option for accessing and harvesting timber sales, include a discussion of noise impacts.

RESPONSE: Discussion has been added in chapter 4, Rural Interface Areas.

COMMENT: Effects of insects and diseases, other than on timber production, are hardly mentioned.

RESPONSE: Discussions of forest health have been added to chapters 3 and 4, Biological Diversity and Ecological Health.

### Air Resources

COMMENT: Ten years is not an appropriate time frame for assessing effects to air quality. At a minimum short-term air quality impacts should be analyzed under the shortest practicable period of time related to the implementation of specific activities.

RESPONSE: The short-term air quality impacts identified are actually average annual impacts throughout the 10-year forecast period.

COMMENT: Statements that air quality management will be in compliance with applicable laws and regulations do not inform the decision maker or the public of how the District will be in compliance and the projected impacts of prescribed fire emissions.

RESPONSE: Chapter 2 has been revised.

COMMENT: Various terms, such as nonattainment and designated areas, are used in the text without definition. These terms must be understandable by the public, and must be used consistently between Districts.

RESPONSE: These terms are included in the glossary.

COMMENT: Smoke sensitive areas on the maps need to be labelled, and each district plan should identify which areas are most likely to be affected by that district's prescribed fire activities. This discussion should also include why each areas has been designated.

RESPONSE: The air quality discussions have been revised.

COMMENT: The final RMP should discuss all the applicable regulatory and/or permit requirements, including National Amblent Air Quality Standards, Prevention of Significant Deterioration, and visibility impairment in Class I areas. The Oregon Smoke Management Plan also needs to be fully described, as well as its relationship to the State implementation Plan.

RESPONSE: Chapter 3 has been revised.

COMMENT: The Draft RMPs include reference to the BLM's smoke surveillance for intrusions. What is this, what does it measure, and how are intrusions reported? What are the District's contributions to reported intrusions? What further monitoring standards and methods will the BLM use to measure compliance with the Clean Air Act and State Implementation Plan standards? Western Oregon Resource Management Plans - Common Comment Synthesis/Partial Responses

RESPONSE: The air quality discussions have been revised.

COMMENT: The Draft RMP assumes uniform burning conditions across the District. These differences need to be fully disclosed in the Final RMP.

RESPONSE: The air quality discussions have been revised. Additional consideration of these differences are more appropriately addressed at the watershed or province planning levels, as identified in the SEIS. Fire management plans completed at those levels will include methods most appropriate for their specific geographic areas.

COMMENT: A more complete comparison is needed between regulated pollutants and expected emissions, especially PM, or

RESPONSE: The air quality section of chapter 3 has been revised.

COMMENT: The types of use of prescribed fire In the RMP need to be identified and fully discussed. Particularly, the dispersion conditions of low-intensity fire need to be discussed along with potential impacts to air quality.

RESPONSE: The air quality discussions have been revised.

COMMENT: More thorough analysis of emission reduction techniques and alternatives to the use of prescribed fire is necessary in the Final RMP.

RESPONSE: The air quality discussions have been revised.

COMMENT: The Final RMP needs to disclose potential impacts to persons in the Rural Interface Areas.

RESPONSE: The air quality section, chapter 4, has been revised.

COMMENT: The analysis needs to include consideration of more complete utilization of slash materials as an alternative to broadcast burning.

RESPONSE: The air quality discussions have been revised.

COMMENT: The Final RMP needs a discussion on the decision process of using prescribed fire.

RESPONSE: Chapter 2 has been revised. Additional rationale can be found in the SEIS.

COMMENT: The impact of the District's firewood program on neighboring communities' air quality needs to be considered.

RESPONSE: The air quality section of chapter 4 has been revised. The amount of available firewood is expected to decline sharply, due to decreased timber harvest levels and increased retention of coarse woody materials for eccsystem management objectives, including wildfire requirements.

# Soils/Site Productivity

COMMENT: Address ways to reduce soil compaction.

RESPONSE: Soil compaction is an unavoidable adverse impact when heavy equipment is permitted on the land. However, the PRMP has adopted a series of Best Management Practices (Appendix G) that are designed to prevent or mitigate the effects of compaction. Additional mitigating measures are employed on a site by site basis to reduce compaction and the subsequent productivity losses, soil erosion, siliation, and increased peak

Appendix JJ-17

flows. Productivity losses due to soil compaction will be limited to one percent or less where ground based equipment is employed.

COMMENT: The BLM should reduce or eliminate broadcast burning because burning reduces site productivity, increases erosion, kills small trees, reduces mycorrhizae, and damages adjacent timber lands.

RESPONSE: Broadcast burning is used for several purposes including providing planting sites for seedlings, controlling competing vegetation, and to reduce the risk of wildfire. Logging slash, when lurnreated, can burn very intensely under wildfire conditions. Best Management Practices (BMPs) have been used since the 1930s, to reduce the impacts on site productivity due to broadcast burning. Refer to the appendices for current BMPs on broadcast burning. Alternatives to broadcast burning such as hand plifing and burning, lopping and scatter of limbs, and cutting of planting holes in slash are also used where feasible. Broadcast burning is one of several tools used for site preparation and will continue in the future. However, broadcast burning levels will decrease due to changes in harvest practices and other resource management objectives and constraints.

COMMENT: Protective standards for potential landslide areas have not been described. Provide information regarding slope stability which is needed for, among other things the location of waste disposal sites.

RESPONSE: BLM's intensive Timber Production Capability Classification (TPCC) inventory, classifies areas based on soil and site susceptibility to degradation from timber management activities. Fragile soil areas where identified at two degrees of susceptibility to management activities. One was the identification of areas where management activities would result in detrimental impacts to soli/site productivity and/or potential off site impacts. An example of this is the TPCC category, FGNW which identified the areas of potential landsliking that could enter waterways. These sites were designated as "nonsuitable woodlands" and will be managed to protect and enhance their non-timber values. The second grouping of fragile sites is the "fragile suitable restricted. These areas have been identified to be fully capable of timber management without site deterioration or off site impacts when Best Management Practices (Appendix G) are used to protect and mitigate impacts from management activities. During site-specific planning, in addition, on-site investigations are conducted on these lands so we can avoid areas subject to landslikes or provide adequate protection to limit their number and size.

COMMENT: Clearcutting causes soil destruction and productivity losses.

RESPONSE: Most sites that are prone to landsilding or surface erosion have been identified by the Timber Production Capability Classification (TPCC) inventory. Others will be identified during site-specific planning. Some of these sites, "fraglie nonsultable woodland", are not planned for harvest. The remainder of these sites have been identified as fragile and require special restrictions or mitigation measures to avoid unacceptable soil impacts and productivity loss. Using management direction for the PRMP in chapter 2 and Best Management Practices (BMPs) will minimize soil destruction and productivity losses. In addition, under PRMP management regimes, areas scheduled for harvest will have an average of at least 6-10 green trees per acre retained after harvesting activities have been completed.

Retention of snags and green trees on the completion of harvest operations will provide future large woody debris to assist in maintaining soil productivity.

COMMENT: FORCYTE-II and other ecological models should be applied to a broad range of potential management prescriptions to reduce risk of long-term site degradation. These models and models of physical properties, such as erosion, should be employed in a realistic test of timberland suitability.

RESPONSE: Using FORCYTE, a full range of prescriptions was analyzed on seven different site conditions. The impacts of these prescriptions were carried through as if the same prescription was used for 600-900 years. The trend of mean annual production and site quality were then reviewed to help resource managers determine the preferred prescription to use. Timberland suitability has been determined through the Timber Production Capability Classification (TPCC) Inventory which will be updated over time to keep up with research data and improve mapping. Western Oregon Resource Management Plans - Common Comment Synthesis/Partial Responses

### Water Resources

COMMENT: Establish riparian management areas (RMAs) of sufficient width to achieve restoration on streams in poor condition. Place a high priority on restoration in these watersheds and include the State and other interest groups in restoration plana.

RESPONSE: Riparian Reserve widths of Alternative 9 of the SEIS have been applied to BLM-administered lands by the SEIS ROD and have been incorporated into the PRMP. The Riparian Reserve widths may be modified after watershed analysis which will consider factors that include stream condition. Review and guidance for possible modifications of Riparian Reserves would be coordinated through the Regional Ecosystem Office. Restoration will be based on watershed analysis and planning. Watershed analysis will also be used to identify and prioritize potential cooperative projects involving various landowners. Additional information on restoration can be found in SEIS Appendix A: FEMAT Chapter V Appendix J, and SEIS Appendix B6: Aquatic Conservation Strategy.

COMMENT: The Scientific Panel has determined that "no-cut" buffers of at least 50 feet are needed to protect intermittent streams with unstable soils.

RESPONSE: The PRMP incorporates such buffers in Riparian Reserves which will include unstable and potentially unstable areas.

COMMENT: The relegation of first and second order streams to a lower level of protection than higher stream orders is inconsistent with the Oregon Water Quality Standards and with EPA's Regional Riparian Management Policy.

**RESPONSE:** The PRMP provides for a riparian reserve on all streams (including ephemeral and intermittent). See chapter 2 for management action/direction.

COMMENT: Intermittent streams should be managed according to specific standards. Intermittent and aphemeral streams are treated no differently than any other forest acre in the plans, yet they are major sources of landsides and debris flows and serve as critical habitats for amphibians.

**RESPONSE:** Ephemeral and intermittent streams are protected through the use of riparian reserves in the PRMP. (See previous response).

COMMENT: BMPs listed in the plan contain few measurable standards. BMP language should include conditions for which BMPs are applicable.

RESPONSE: BMPs will be prescribed and implemented based upon site-specific conditions and requirements. BMPs will be monitored and evaluated and modified as necessary through an iterative process to meet water quality criteria and other resource management objectives.

COMMENT: The 1988 Oregon Statewide Assessment of Nonpoint Sources of Water Pollution (NPS Assessment Report) should be used in conjunction with Oregon's 1992 Water Quality Status Assessment (305(b)) Report, and other data, to establish:

- 1. Desired future condition on a stream-by-stream basis
- 2. Criteria and priorities for cumulative effects analysis
- 3. Priorities for water quality monitoring programs
- 4. Criteria and priorities for watershed level activity plans
- 5. Priorities for watershed rehabilitation programs
- 6. BMPs and watershed harvest deferrals

RESPONSE: We agree. These items will be established during plan implementation.

COMMENT: The EIS should not rely solely on the application of BMPs to satisfy the Clean Water Act. Discuss the effectiveness of BMPS.

RESPONSE: The Aquatic Conservation Strategy in the SEIS record of decision and BMPs are the primary mechanisms to enable the achievement of water quality standards. BMPs are selected to achieve water quality standards. The iterative process that will be followed includes:

- Design of BMPs based on site-specific conditions, technical, economic and institutional feasibility and the water quality standards of those waters potentially impacted.
- 2. Monitoring to ensure that practices are correctly designed and applied.
- 3. Monitoring to determine:
  - a. The effectiveness of practices in meeting water quality standards.
  - b. The appropriateness of water quality criteria in reasonably assuring protection of beneficial uses.
- Adjustment of BMPs when it is found that water quality standards are not being protected to a desired level and/or possible adjustment of water quality standards based on considerations in 40 CFR 131.

COMMENT: Include a BMP outlining specific parameters applicable to project-specific cumulative watershed effects analysis.

RESPONSE: A cumulative watershed effects BMP has been incorporated into the PRMP and considers applicable beneficial uses, NPS Assessment and 305(b) reported conditions, and monitoring and inventory data. When new methods of analysis are developed and validated they will be incorporated.

COMMENT: Include a BMP with a commitment to activity deferrals when the cumulative effects analysis identifies probable beneficial use impairment. Include a BMP outlining a more conservative site-specific project planning approach when cumulative watershed effects analysis tools are not available, are under development, or have not been validated.

RESPONSE: A BMP has been incorporated into the PRMP to address activity deferral or mitigation of cumulative watershed effects where impacts to beneficial uses are probable.

COMMENT: BLM should not allow discretionary mining, grazing and other discretionary activities which would increase temperatures over the long term in streams not meeting state standards for temperature.

RESPONSE: Authorized management actions will be designed or regulated to comply with applicable water quality criteria for the protection of identified beneficial uses, and the Aquatic Conservation Strategy,

COMMENT: Acknowledge the limits on the availability of surface water and address surface water quality problems.

RESPONSE: Current Departmental policy requires that we foliow state requirements for the acquisition of all necessary water rights. Where surface water is limited in availability, we will pursue acquisition of water rights based upon the most current Departmental policy. Surface water quality problems as identified in the Oregon Nonpoint Assessment Report and the 1992 Water Quality Assessment (305 (b)) Report and/or district inventories are described in chapter 3 of the RMP/EIS.

COMMENT: Describe watershed improvement and stream restoration activities which increase low season flow.

RESPONSE: Implementation of riparian enhancement projects which enhance the potential for bank storage and slow release through establishment of proper function riparian systems. Also mitigation of existing compaction through obliteration of roads or other compacted land surfaces to restore slope hydrologic functions, will improve flood plain and upland hydrologic functions to enhance low season flow.
COMMENT: Set watershed impact standards, including maximum soil compaction, erosion rates, equivalent clearcut acres and relative percentage of seral stages.

RESPONSE: Across the board watershed prescriptions are inappropriate. Prescriptions for individual watersheds will be based upon watershed analysis, application of BMPs and assessment of cumulative watershed effects, considering watershed specific soils, geology, inherent channel stability, beneficial uses to be protected, and other relevant site specific characteristics.

COMMENT: Watersheds should be classified and prioritized according to current functional or ecological conditions and importance for maintaining viable wildlife populations.

RESPONSE: Although BLM's forest inventory data provides some information on overall ecological or functional condition, this information cannot be disaggregated by watershed and remain statistically valid. Data on intermingled private lands is even less useful. We are implementing a riparian inventory to assess functional condition of stream reaches and riparian zones.

COMMENT: Watershed-specific standards should be developed in cooperation with adjacent lands.

RESPONSE: Cooperation with other parties may often be an appropriate way to implement RMP decisions most effectively, and their involvement will be encouraged. It is not appropriate, however, to make RMP implementation dependent on the cooperation of other landowners.

COMMENT: Watershed concerns suggest that road culverts design standards should be based on 50-year peakflow, not 25-year.

**RESPONSE:** Road culvert standards have been revised to require that culverts be designed to accommodate at least the 100-year flood. This conforms the PRMP to the standards and guidelines.

COMMENT: The goal for watershed management in watersheds providing surface water to public systems serving municipalities should be restated, as being to assure the needs of the users are addressed and to protect comprehensive water quality.

**RESPONSE:** Watersheds providing surface water for domestic uses will be managed to meet applicable water quality requirements established through Oregon Department of Environmental Quality.

COMMENT: Display severely impaired streams identified by DEQ's 1988 Oregon Statewide Assessment of Nonpoint Sources of Water Pollution within analytical watersheds.

RESPONSE: This has been added to the Salem District PRMP. See chapter 3.

COMMENT: DEC/s 1988 non-point source report identified many stream segments in the district that have serious non-point source pollution problems caused by forest practices. The DEIS should have updated that report with more recent information. What is BLM doing about the problems?

RESPONSE: The 1988 319 Assessment Report was a collaborative effort undertaken by many agencies and groups within the state. BLM district personnel played an integral role in providing the information contained in the report. We, In cooperation with Oregon DEQ, are in the process of systematically updating the Assessment Report. As a Designated Management Agency under the Clean Water Act we have worked and will continue to work closely with Oregon DEQ in improving and updating the assessment of stream segments on BLM-administered lands. Opportunities to mitigate existing NPS pollution sources will be an integral component of plan implementation.

COMMENT: Contact Oregon DEQ for their results of recent monitoring programs on streams.

RESPONSE: As a Designated Management Agency we work closely with Oregon DEQ on all aspects of the Nonpoint Source Pollution Management Plan, including the sharing of data relevant to BLM-administered lands.

COMMENT: On-the-ground mapping of streams and stream orders, with clear identification of addressed intermittent and perennial streams is needed. The maps should also present 100-year flood plains and potentially hyporheic zones.

RESPONSE: Such mapping would be a massive undertaking and would have to cover not only BLM-administered lands, but also some of the intermingled lands in other ownerships. We have plans for revising and upgrading the current hydrography data themes for our GIS system to be completed concurrent with implementation of the plan. Currently, we do not have plans for mapping 100-year flood plans or potential hyporheic zones.

COMMENT: Ten years is not an appropriate time frame for assessing effects to water quality. At a minimum short-term time frames should be analyzed under the shortest practicable period of time related to the implementation of specific activities.

RESPONSE: The RMP does not fix dates for the implementation of specific activities that might affect water quality. Most site-specific activities contemplated will occur two or more decades in the future, not during the life of the plan. Nots that will occur during the life of the plan are not site-specifically established but their approximate location is projected through the 10-year timber management scenario. Shorter time frames can only be assessed as annual or sequential multi-year plans for the specific tratements are developed.

COMMENT: Roads cause most of the sedimentation in our rivers through surface erosion and landslides.

RESPONSE: The BLM will continue nonpoint source pollution management in accordance with the guidelines established by the Environmental Protection Agency (EPA) and the Oregon Department of Environmental Quality (ODEQ). Appendix G contains a section on Best Management Practices (BMFs) that will be used to help ensure compliance with these guidelines. Some of these practices include revegetating exposed solis, restricting access to natural surface roads, and paving or rocking permanent roads. Temporary roads will be put to bed or erosion control practices will be used to keep erosion to an insignificant level. Management. As stated in the SEIS ROD Aquatic Conservation Strategy, watershed restoration capability Classification (TPCC) Inventory has located areas with surface erosion and landside limitations. This inventory data will be supplemented by an on-site investigation reads.

COMMENT: The plans for road building violate the Clean Water Act because new roads will contribute sediment to already impacted streams.

RESPONSE: BMPs will be implemented to minimize potential impacts from both new and existing roads. In addition, opportunities will be identified through project planning to mitigate existing nonpoint sources of sediment.

COMMENT: It is unclear how the Watershed Condition Index (WCI) was generated; how it was used in planning; how it will be used in standards, guidelines and monitoring; and how it will be validated.

RESPONSE: The WCI has been dropped as an analytical tool (see chapter 4).

COMMENT: Explore the possibility that mining activities on BLM lands cause significant increases in the concentrations of metals in streams that supply public water systems.

RESPONSE: Mining activities on BLM-administered lands must comply with surface management regulations, state water quality criteria and Best Management Practices, to protect beneficial uses such as public water supplies.

COMMENT: The people that BLM would be dosing by allowing pesticides, inerts, fertilizers and the like to get into drinking water supplies would be at risk.

RESPONSE: The buffering of streams when such products are used is part of the commitment to provide treatable water at the point of intake. Impacts of the use of herbicides and inert carriers have been fully addressed in BLM's Western Oregon - Management of Competing Vegetation EIS and Northwest Area Noxious Weed Control EIS.

COMMENT: Expand the discussion concerning the availability of groundwater and groundwater guality.

RESPONSE: Available information, mostly from other agencies, has been incorporated into the RMP/EIS. The extent of ground water supply effects is a site-specific issue and will be evaluated at the watershed or project level. Management prescriptions will be developed in all instances where groundwater quality might be potentially impacted.

COMMENT: The need for acquiring private landowners water rights and establishing instream rights should be stressed.

RESPONSE: The BLM will identify and attempt to obtain instream flows needed to maintain riparian resources, channel conditions, aquatic habitat, and water quality.

COMMENT: Has a complete inventory been conducted to assess the district's wetland resources? How are significant impacts assessed? How will wetland inventories be conducted prior to timber harvests and other activities?

RESPONSE: Most wetlands on the Salem District have been Identified through the mapping of the Timber Production Capability Classification under fragile water and nonforest water categories. In addition, wetland inventories will be part of site-specific interdisciplinary inventories conducted prior to activities. Project plans will identify appropriate protection for these lands consistent with our goal for the protection of water quality and existing federal direction for their classification and preservation. See riparian objectives in chapter 2. Environmental analysis of these plans will lead to determination if impacts would be significant.

COMMENT: Specifically name wetlands as features for which riparian management areas will be established and specifically identify wetlands that will be restored or enhanced.

**RESPONSE:** The PRMP/FEIS acknowledges wetlands and provides management direction for their protection. Opportunities to restore or enhance wetlands will be identified during implementation of the plan.

COMMENT: Acknowledge the need to coordinate and cooperate with public and private landowners to inventory wetlands, set criteria for significance for protection and restoration, and coordinate priorities to protect and restore public wetlands.

RESPONSE: Coordination and cooperation with other landowners may be an appropriate way to implement RMP decisions most effectively. It is not appropriate, however, to make RMP implementation dependent on the cooperation of other landowners.

COMMENT: Provide a more thorough discussion of the potential effects on water yields and streamflow.

RESPONSE: The chapter 4 discussion on this topic reflects the circumstance that potential effects on water yield and streamflow are highly dependent upon physio-climatic watershed conditions and the nature of management action. Reduction of evapotranspiration immediately following regeneration timber harvest will generally make more water available for streamflow, though the duration and timing of increased yield will be highly variable. Analysis of water yield and timing will be a component of watershed analysis.

# **Biological Diversity**

COMMENT: Emphasis remains on single species recovery programs rather than on habitat protection and other measures that focus on maintaining biodiversity.

RESPONSE: The emphasis of the PRMP is dual. Emphasis on existing recovery programs must continue until a decision is made on the recovery status of species such as the peregrine falcon, Columbiam white-tailed deer, and bald eagle. The USFWS currently focuses on single species recovery and until an official shift to habitat recovery is made, BLM land management must satisfy single species management requirements.

COMMENT: Old Growth Emphasis Areas do not protect old growth ecosystems from logging roads, soil compaction and other threats to biodiversity.

RESPONSE: The PRMP substitutes Late-Successional Reserves. Thinning or silvicultural treatments within them must be beneficial to the creation of late-successional forest conditions.

COMMENT: Identify and examine expected future condition for biodiversity. Relate to the compositional, structural and functional attribute of ecosystems and include a regional perspective.

RESPONSE: Effects of the various alternatives on biodiversity were analyzed in chapter 4. Due to limited knowledge of these effects, the results of this analysis must be viewed as preliminary.

COMMENT: Provide information on the current condition of ecosystems and their compositional, structural and functional attributes.

RESPONSE: Information gleaned from existing inventories was used to develop the information displayed in the Biological Divarsity section of chapter 3 in the draft RMP. In the PRIMP/FEIS we used data from a Forest Service synthesis of available information about the pre-settlement characteristics of Pacific Northwest forests to compare current forest condition and function with the range of pre-settlement conditions. Ecosystem functions reflect the underlying ecosystem processes. These can sometimes be the subject of inventories; for instance, inventories describing the nesting success of spotted owls provide an indicator of one aspect of ecosystem function. Where possible, such statements of ecological function are shown in chapter 3, Biological Diversity and Ecological Haath, or other sections geschire resources.

More generally, ecosystem processes are implied from the presence of species, structures, and disturbance intervals known to be required for functions to occur. For instance, the retention of nitrogen fixing plants in young stands, nitrogen-fixing lichens in large old trees, and microbal nitrogen fixiaton associated with down wood maintains processes which help maintain site productivity. If forest conditions are maintained within the range of natural variation which occurred before settlement began, and if species mixtures and structural complexity are retained, it is thought that ecological functions will be maintained.

COMMENT: Express the amount of large woody debris (LWD) to be retained by size class, i.e., logs at least 20 feet long and 25 inches in diameter at the large end.

RESPONSE: We have adopted the SEIS ROD standards. Pending development of models specific to plant associations and stand types, the interim guidelines consider only logs 20 feet or longer and at least 20 inches in diameter as relevant in this district.

COMMENT: Permit the retention of LWD from the merchantable component if the unmerchantable component is absent.

RESPONSE: Marchantable and nonmerchantable down wood will be candidates for retention in meeting structural targets within the analytic landscape, however nonmerchantable wood will be utilized first in satisfying targets.

COMMENT: Within 100 years of management under the draft plans, almost all large woody material will disappear in GFMAs.

RESPONSE: Because there are differences in the decay rate for down wood in different environments and because the contribution of down wood is usually periodic, related to root diseases, storm events and other disturbances, there will be variation in the amount and size of down wood which will exist in the forest for different structural (age) classes. For the PRMP, structural targets have been set as described in chapter 2. The shorter harvest rotations set for the GFMA would likely reduce the large woody debris component. However, according to specifications established in the PRMP (which tiers to the SEIS ROD), retention of some green trees, snags and available large woody debris will benefit large woody material in the GFMA.

COMMENT: Include retention of target levels of dead-and-downed wood in timber sale contract stipulations.

RESPONSE: Retention levels set forth in the plan objectives will be translated into contract stipulations.

COMMENT: The substitution of geographically diverse plantation stock for narrow, locally adapted families may increase diversity at the site level, but homogenizes the landscape and thus reduces overall diversity. Address the influence of BLM's tree improvement program at the species, eccesystem and landscape levels.

RESPONSE: We expect to re-examine our tree improvement program and the extent to which we use genetically improved stock, to assure that the genetic diversity of the forest is maintained at the stand level and at the regional level. The tree improvement program appears to increase our ability to fit naturally evolved and adapted genotypes to forest sites, to maintain the genetic quality of forest stands and to be useful in increasing resistance of stands to global climate change.

Management of the forest with or without tree improvement has the potential to change genetic diversity. Tree improvement assures genetic conservation of desired genotypes for use in meeting resource management objectives.

# **Old-Growth Forest**

COMMENT: The DEIS violates NEPA by failing to adequately describe the complexity of old-growth forests.

RESPONSE: Entire books have been written describing that complexity, which the EIS recognizes. It is not appropriate for an EIS to repeat at length general information previously published.

COMMENT: Preservation of old growth forests is impossible as trees have finite life spans.

RESPONSE: Although individual tree death is a natural part of old-growth ecosystems, Morrison and Swanson (1990) and Agee (1991) showed that old-growth Douglas-fir ecosystems persisted on sites over many centuries. These ecosystems are renewed and regenerated by under-canopy and patchwork fire, and gap mortality. Our EIS examines the ability of the different alternatives to provide old-growth habitat within the general BLMmanaged landscape. The loss of some older stands from wildlire and other causes, and the death of trees is assumed and is included in seral diversity analyses. It is also assumed that prescribed fire and other practices would sometimes be used to control seral changes within older stands which might cause them to shift away from desired old-growth conditions (for instance shifting away from confire dominance and toward tanoak dominance).

COMMENT: The old-growth inventory should be corrected or augmented to identify old-growth stands meeting the PNW-447 and GTR-285 definitions.

RESPONSE: We do not have a specific old-growth (late successional stage) inventory. We have an operational inventory of timber stands which identifies locations of late successional forests and their timber inventory attributes. These attributes include overstory and understory timber size, volume and age classes,

COMMENT: Old-growth could be heavily impacted by density management and lose its habitat value.

RESPONSE: Stands meeting minimum old-growth definitions are not proposed for density management. Density management is normally proposed only for stands under 80 years of age (110 years in the northern coast range Adaptive Management Area) and must be expected to be beneficial to the creation of late-successional forest conditions. Density management of young mono-species/canopy plantations in Late Successional Reserves is to focus on increasing diversity within stands through development of multiple canopies with a mix of species.

COMMENT: The amount of rare, old forest that will be lost if the preferred alternative is adopted is understated. In the long run only one-third of OGEAs will qualify as old-growth. No uncut, natural forest existing in OGEAs today will survive full implementation of the plans. Explain how clearcuts with minimal retention in OGEAs, even with a 300-year rotation, maintain and enhance old-growth characteristics.

RESPONSE: This approach is no longer part of the PRMP.

COMMENT: Small old-growth patches may provide necessary ecosystem functions, depending on the relative proximity of other old stands and the general structure of the landscape. Small patches may become quite valuable if they exist in the context of a natural stand that seals edges and provides connectivity. There is no evidence that BLM considered these factors in making land allocations.

RESPONSE: We agree that the matrix within which older forest patches exist is a significant component of wildlife habitat, as is the total landscape arrangement of habitat grains of various sizes, shapes, and seral stages. Under the PRMP, late-successional forests will be managed to retain such patches. The standard and guideline will be applied in fifth field watersheds in which federal forest lands are composed of 15 percent or less late-successional forest. Project-level NEPA analysis will address effects on the remaining late-successional forests.

COMMENT: Solutions to the shortfall of older-aged components in the Coast Range (Eugene, Salem, Coos Bay) should be analyzed.

**RESPONSE:** The SEIS analyzed a range of alternatives to protect or enhance late-successional and oldgrowth ecosystems including the Coast Range.

COMMENT: Further evaluate the impacts on biological diversity in the Coast Range from harvesting old growth in the general forest allocation.

RESPONSE: In the Salem District, only a small portion of remaining old-growth in the GFMA in the Coast Range is expected to be harvested under the PRMP in the first decade.

COMMENT: Old-growth acreage should be reported by forest cover type.

RESPONSE: Reporting such information would be desirable but at this time that information is not available. As the forest plan is implemented and further old growth inventories are initiated, this information will become available. Unfortunately, data on the series, habitat type or plant association do not currently exist, although the approximate associations can be estimated by province and sustained yield unit. Dominant and understory forest tree information is available and is included in the final plan inventory of forest conditions. Data is provided in district files.

COMMENT: The GIS technology should be used to identify patches of ancient forest embedded in mature forests that could develop interior conditions in the near future and to target other areas for restoration of interior forest habitat.

RESPONSE: Our Operations Inventory is not detailed enough to identify the features relevant to such projections. Our current GIS system lacks image processing capabilities to identify and classify these areas. The GIS technology was used, however, to help select lands for late-successional reserves which will provide much of the

long-term interior old-growth forest on BLM-administered lands. Watershed analysis will further consider potential future landscape arrangements.

# Ecosystem Management

COMMENT: The checkerboard ownership pattern makes it unlikely that the ecosystem management objectives will be achieved.

RESPONSE: The PRMP approaches ecosystem management utilizing a variety of temporal and spatial landscape allocations. BLM manages land that is mostly in a checkerboard pattern, it is true. The ecosystem management vision can not be achieved by BLM alone but through cooperation with other public agencies over a broad landscape. Such cooperation is a strong component of the SEIS decision strategy.

COMMENT: Identify how silvicultural practices will lead to the goals of ecosystem management.

RESPONSE: Silvicultural systems define the sequence of management practices that take place over the life of stands in a managed forest to meet land management objectives. See appendix K or structural retention and development of late successional stage systems. Structure in an ecosystem or community is the relationship of physical size, height and vertical stratification of vegetation. Managing younger stands with low levels of structural diversity toward more complex conditions is important in several land use allocations to meet non-timber objectives.

COMMENT: Specify methods for coordinating biodiversity and ecosystem management goals with other landowners, specifically the Forest Service and the State.

RESPONSE: The SEIS ROD addresses this topic primarily in the Interagency Coordination discussion in section E of its Attachment A.

COMMENT: The silvicultural systems proposed bear no resemblance to natural processes that should be emulated in a program of genuine ecosystem management. The overall effect of the intensive management regime proposed will be a highly fragmented landscape with some stands of old-growth trees but few if any other characteristics of an ancient forest ecosystem. Even the pattern of residual trees bears no resemblance to natural mortality. Natural catastrophic fire would leave many well-distributed snags and clumps of green survivors. The scattering of residual trees proposed would not likely survive the first major winter storm.

RESPONSE: The rationale for partial tree retention is not so much to precisely parallel natural processes as it is to provide a biological legacy and maintain long-term site productivity. See the FEMAT report, P. IV-34. A legacy is something passed on from one generation to future generations. Like trees which survived catastrophic fires or windstorms, retained legacy trees will be well distributed and clumped, and would provide a source of seed as well as important habitat components such as large green trees, snags, and eventually, large down logs. While blowdown and breakage is a problem in some locations, experience indicates that most retained trees would remain standing for many years.

# Vegetation - Including Special Forest Products

COMMENT: Contrast the differences between early successional stages resulting from natural processes and those resulting from silvicultural prescriptions.

RESPONSE: The structural differences between seral stages resulting from various levels of natural stand replacement and conventional, even-aged management are shown in figure 3-1. Silvicultural systems can produce early seral stages with a wide variety of structures and compositions depending on the approach taken, including structures and compositions which resemble those originating from natural processes. The primary difference between the compositions of young stands arising from natural disturbance and young stands arising from harvests are lower levels of standing dead and down wood.

COMMENT: The plans should include a detailed summary of forest age class distribution through time, with a separation of two-stage and multi-stage stands.

RESPONSE: Such projection would be complex and time consuming and would be unreliable until most watershed analyses are done. We believe it would have little utility without information on spatial distribution, which cannot be projected.

COMMENT: The importance of conserving relatively rare hardwood forests is virtually ignored. Conversion of hardwoods to conifers should be approached with caution, as there are ecological reasons why many sites are dominated by hardwoods.

RESPONSE: Conversion is proposed only in the GFMA on sites considered natural conter sites where past management led to conversion of the site from conifers to hardwoods. The PRMP provides for the retention of existing natural hardwood stands and their management for the sustained yield of hardwood resources. Species diversity requirements for reforestation actions, prescribed fire treatments, and subsequent stand management will assure the retention of native hardwood species within stands considered for active management.

COMMENT: Display current acreage of major hardwoods groups in conifer dominated stands, mixed coniferhardwood stands and hardwood dominated stands. A further breakdown into seral hardwoods and hardwoods commonly present throughout the life of a stand would be helpful. Display projected changes in these hardwood acres by alternatives.

RESPONSE: Current acreage of conifer-dominated stands and hardwood-dominated stands by age class is displayed in tables 3-41 and 3-42. Hardwood stands on the Salem district often contain a significant conifer component, averaging about 30 percent of total volume. Red adder and bigleaf maple, the most common hardwoods, are primarily early seral species, with much shorter life spans than the major conifers. Under the PRMP, approximately three percent of the existing hardwood stands would be converted to conifers during the first decade. This would occur only on sites where past management resulted in conversion of the stand from conifers to hardwoods.

COMMENT: Address threats (including those on private lands) to oak and other deciduous woodlands. Identify specific management plans for all hardwood stands.

**RESPONSE:** Deciduous woodlands on BLM-administered land are threatened primarily by natural disturbance factors (such as fire). Timber harvesting has been traditionally focused on conifer stands.

COMMENT: Develop and display goals, objectives and prescriptions for maintaining hardwoods, minor conifer species and shrubs.

**RESPONSE:** Objectives have been added regarding native plant communities and species. Prescriptions are implicit in the management actions/direction, but would be site-specifically developed in implementation plans.

COMMENT: Identify minor conifer species present in conifer dominated stands.

RESPONSE: This information is presented in chapter 3, Vegetation.

COMMENT: Address how current and proposed management complies with the Pacific Yew Act. Do this in addition to the separate EIS, being prepared by the Forest Service with BLM cooperating.

RESPONSE: Such duplication is neither efficient nor appropriate.

COMMENT: The Pacific Yew Act effectively bans even-aged management and slash burning in yew habitat. The draft RMP fails to adequately protect yew trees. The Pacific Yew Act may also require replanting of yew to the same stocking levels as before harvest.

RESPONSE: As long as the Act remains in effect, resource management plan implementation actions in yew habitat will conform to its terms.

COMMENT: The Draft EIS violates NEPA because it fails to disclose how long the proposed yew bark harvest rates can be sustained.

RESPONSE: The RMP/EIS does not propose any specific rate of yew harvest. A permissible rate of harvest from National Forest System and BLM-administered lands was identified in the Record of Decision on the joint BLM-Forest Service Pacific Yew Management IES, and its sustainability was analyzed in that EIS.

COMMENT: Disclose where suitable mushroom habitat exists and the environmental impacts of logging on mushroom populations.

RESPONSE: Data on suitable mushroom habitat is currently limited. The distribution and abundance of these species has not been determined on most BLM - administered lands. Chapter 4, Vegetation, has been expanded to address such impact concerns. In general, mushrooms that prefer late-successional forests would be favored under Alternatives C, D and E. Harvest of mushrooms would be done in compliance with appropriate National Environmental Policy Act (NEPA) regulations and consistent with ecosystem management principles. The final BLM Task Force Report, "Wanaging Special Forest Products in Oregon/Washington" was approved by the BLM State Director on March 31, 1993. It recommended that the BLM Identify inventory, monitoring and research needs that reflect the biological sensitivity, public demand and interest in any given species of special forest products.

The BLM Forest Ecosystem Inventory Handbook, published in October 1993 allows for collection of data on mushroom species, quantity and quality. This inventory has begun. Several research studies have been proposed to investigate the productivity and ecological habitat of noxious mushroom species. They would involve the BLM, the USFS Pacific Northwest Research Station and the National Biological Survey.

COMMENT: Harvest of minor forest products (such as salal, beargrass, ferns, moss and fungi) should be more carefully managed. Collection of such products should be by permit only, and should be monitored and enforced.

RESPONSE: Discussions of management for such products have been added to Chapter 2. and a related element has been added to the monitoring plan. Although authorized harvest would be permit only, monitoring and enforcement will not be totally effective due to the scattered locations of the resources.

# **Riparian Zones**

COMMENT: Define expected future condition for RMAs.

**RESPONSE:** Objectives which do this for Riparian Reserves have been added for the PRMP, derived from the Aquatic Conservation Strategy objectives in SEIS appendix B6.

COMMENT: Establish standards for all stream orders, reflecting functional and ecological differences between orders. These factors should ensure shading, water quality, microclimate, floodplain protection, and critical habitat for wildlife and sensitive species.

RESPONSE: The Aquatic Conservation Strategy described in Appendix B6 of the SEIS requires that watershed analysis be a principal analytical foundation for management actions. Watershed analysis is required in Key Watersheds prior to kand management and will eventually be accomplished for all watersheds. The information from watershed analysis will guide management prescriptions, including refining boundaries of ripartan reserves, and developing restoration strategies and priorities.

COMMENT: Address riparian area management at the watershed or landscape level, reflecting the current condition of watersheds.

RESPONSE: Riparian Reserves are described in appendix B6 of the SEIS. Standards and Guidelines prohibit activities in Riparian Reserves that retard or prevent attainment of the Aquatic Conservation Strategy Objectives. Widths of Riparian Reserves are based on ecological and geomorphic factors. Those widths apply until watershed analysis is completed, a site-specific analysis is conducted and described, and the rationale for final Riparian Reserve boundaries is presented and approved.

COMMENT: Clarify how average widths shown for RMAs are utilized in on-the-ground analysis. Include the documentation and the mechanisms to fully protect all beneficial uses for riparian areas including wetlands.

RESPONSE: See previous response. Watershed analysis will identify the riparian reserve widths needed on specific stream reaches, wetlands, or other water bodies, to meet RMP objectives. Aquatic Conservation Strategy objectives would be met by completing watershed analysis (including appropriate geotechnical analyses) prior to construction of new roads or landings in Riparian Reserves.

COMMENT: It is inappropriate to allow roads in riparian management areas to access timber harvest in other areas.

RESPONSE: Construction of roads upslope and near ridges is normally preferred, but occasionally construction within (but toward the outer edge of) a riparian reserve may reduce the total road length needed for harvest access by so much that it is considered environmentally preferable to build the shorter road. Any road construction in Riparian Reserves would occur only after watershed analysis.

COMMENT: BLM's proposed riparian management on perennial streams is only about half as wide as recommended by the Scientific Panel on Late-Successional Forest Ecosystems, which said, "Establishing wider riparian corridors on federal lands across the landscape will provide additional protection from disturbance and help initiate recovery of degraded areas."

RESPONSE: In the PRMP, Riparian Reserve widths on perennial streams have been expanded to the widths recommended by the Scientific Panel.

COMMENT: If riparian buffers are not at least three times the height of the tallest trees, windthrow over time will negate the design of the buffer.

RESPONSE: Windfirmness varies among sites. We do not believe such a generality is true.

COMMENT: Restoration of riparian areas in poor or deteriorating condition should be a high priority.

RESPONSE: Priority will be given to restoration of degraded riparian areas. Watershed analysis will help identify priority areas. Key watersheds will have particular emphasis.

COMMENT: RMA width should be appropriate to meet water quality standards, supply potential large woody debris and down wood, and manage for sensitive riparian-dependent species within a landscape context.

RESPONSE: The PRMP Riparian Reserve widths aim at all these objectives. The opportunity to meet all of them (e.g., large woody debris) will not occur for many decades along some stream reaches.

COMMENT: Plant conifers within hardwood-dominated riparian areas.

RESPONSE: This will be incorporated in watershed restoration efforts where appropriate.

COMMENT: Since tree diameter was selected as a measure of riparian zone health, indicate how diameter thresholds were selected.

RESPONSE: The diameter thresholds were those available from our current extensive forest inventory (the

operations inventory), which divides forest stands into four diameter classes. The largest class, above 21 inches, was defined as best (good/optimal). The second largest, 11 to 21 inches, was defined as next best (fair). The others were defined as poorest (minimal).

COMMENT: Since the RMP/EIS determines riparian zone forest age and size based on the timber operations inventory for adjoining up-slope trees, address the inventory's accuracy in riparian zones.

RESPONSE: The Operations Inventory shows a different stand type in many riparian zones (because of a higher proportion of hardwoods) than that on the adjacent upland slopes. Where no change in stand type adjacent to streams is recorded, the upslope inventory was considered to represent the age and composition of the riparian zone vegetation as well. Generally, increased soil molsture and greater competition from other vegetation result in flewer but larger trees in the riparian zone compared to upslope areas. Thus, the condition of the riparian zone vegetation would tend to be underestimated when average tree diameter of upslope stands is used as the indicator.

COMMENT: Provide tree species and density data and describe factors that may limit future riparian zone maintenance and production, such as water table alteration, in the riparian analysis.

RESPONSE: Neither our forest inventory data nor other data are consistently specific enough to be considered valid for this purpose in riparian zones. Watershed analysis is expected to begin to address such concerns.

# Wildlife

COMMENT: In the analysis of wildlife populations, spatially explicit models were not used (excepting for spotted owls) and hence projections may be overly optimistic.

RESPONSE: Spatially explicit models do not exist for most wildlife species, (elk is an exception). The best available models that could be applied using BLM's data base were used in the analysis of effects.

COMMENT: There is an over-reliance on riparian zones for meeting the needs of wildlife communities. Many of the upland species habitats are not considered.

**RESPONSE:** Upland habitats will be maintained or enhanced in significant amounts in Late-Successional Reserves, connectivity/diversity blocks, and special management areas.

COMMENT: The wildlife species have been aggregated into groups that are inappropriate for assessing viability.

RESPONSE: Aggregating wildlife species into groups with similarities in habitat requirements complements the concepts of ecosystem management. We acknowledge that there are some differences between species needs in a particular group (e.g., amphibians), but there are also broad similarities which can be dealt with more suitably in the development of forest plans often affecting hundreds of thousands of acres. One of the intended advantages of ecosystem management is to avoid the problems inherent on a species-by-species approach; primarily those of conflicting habitat requirements of individual species. A goal of ecosystem management is to provide a balance of all potential natural vegetation communities suitably distributed across the landscape. Viability assessment is primarily provided by the SEIS and the FEMAT report.

COMMENT: Animal species which occur within the planning area, but with no known occurrence on Bureau lands, should be suspected as occurring on Bureau lands unless adequate inventory work shows otherwise.

RESPONSE: We agree except where strong field evidence dictates otherwise.

COMMENT: The effectiveness of Connectivity Areas as corridors for wildlife movement has not been adequately addressed. Consider their width, current habitat fragmentation within the corridors, the effect of timber

harvest on habitat mosaics including anticipated patch size, land ownership pattern and the different dispersal needs of wildlife.

RESPONSE: In the RMP, the concept has been revised. Connectivity/diversity blocks will not be confined to specific corridors but will be spread out across the landscape. The idea is to enhance blodiversity and to help provide for dispersal of mobile wildlife species. Their effectiveness for the latter purpose is unknown, however, as dispersal needs of most species have not been researched.

COMMENT: Identify the role and value of shrubfields as wildlife habitat. Assess whether any species are dependent on these shrubfields.

RESPONSE: Shrubtields are very limited on BLM-administered land in the Salem District. Values will be addressed in watershed analysis.

COMMENT: A 100 or 150 foot RMA for lakes, and ponds and other waterbodies may not adequately maintain or protect the inherent value and habitat use of the waterbody and adjacent zone, especially for fish-eating raptors.

RESPONSE: The PRMP expands this width for lakes and natural ponds. All such buffer widths may be adjusted after watershed analysis, based on site-specific characteristics.

COMMENT: Conduct a district-wide inventory of sensitive wildlife areas.

RESPONSE: A partial district-wide inventory of sensitive wildlife areas has been accomplished (e.g., nest sites of ospreys, great blue herons, marbled murrelets, bald eagles, spotted owls). Gathering updated information as well as additional species data will be part of monitoring and continuing inventory. These data are recorded in a district-wide data base.

COMMENT: Provide management consideration for all species contained on the district that are described the ODFW's 1992 "Sensitive Vertebrates of Oregon".

RESPONSE: Relevant species listed in ODFW's 1992 list of "Sensitive Vertebrates of Oregon" are addressed as Special Status Species and SEIS Special Attention Species in the PRMP/FEIS.

COMMENT: Identify the species expected to benefit from connectivity areas, and their expected function for each species. Evaluate the ability of the areas to provide these functions, relating to their locations, width and proposed management. Address their lowest condition expected relative to old growth characteristics and its relation to desired future condition.

RESPONSE: Not enough is known about the mobility patterns of species to permit a species-by-species discussion of the value of these areas. Given the checker board pattern of BLM-administered lands, species with greater mobility would likely benefit more than species with low mobility.

COMMENT: A more formalized risk assessment regarding old-growth sensitive species is needed. Alternative E could serve as a benchmark.

RESPONSE: Risk assessment regarding such species was accomplished in the SEIS.

COMMENT: Address how BLM proposes to improve marginal elk forage conditions and to meet habitat effectiveness and herd number objectives.

RESPONSE: We propose to conduct some forage seeding to improve elk habitat. The cover quality and spacing indices would likely be improved by establishment of reserves and connectivity/diversity blocks. We also propose a variety of road closure or access limitation measures to reduce road density levels.

COMMENT: Where feasible, expand forage seeding programs to benefit big game.

RESPONSE: We propose to do some forage seeding. However, this program will necessarily be limited by the reduced level of clearcutting and burning under the PRMP. For example, past observations indicate that forage gernination is best after burning has produced black sets seedbeds. This condition is expected to be limited in the future. We are also considering the use of native forage species in future forage enhancement projects. Unfortunately, lack of a reliable source of seeds for native species may also limit our forage enhancement program.

COMMENT: The method used to analyze effects on elk populations is flawed. The importance of "optimal thermal cover" to elk is grossly exaggerated. The fastest increase in elk populations ever recorded occurred in the Mt. St. Helen's blast zone, where optimal thermal cover does not exist. There is no evidence suggesting that "winter kill" of elk, which thermal cover attempts to ameliorate, is a problem in western Oregon.

RESPONSE: The Wisdom Model is considered the most widely accepted professional model to analyze elk habitat condition at this time. It was developed by professional biologists and represented the best Information at the time of its development. Validation of the model is the subject of a research study currently being conducted by Oregon State University in conjunction with BLM. The Wisdom Model was developed for forest ecosystems, not blast zones.

COMMENT: Re-evaluate elk habitat conditions using all four habitat variables in the Wisdom model. Identify the current habitat effectiveness for the four variables by sub-watershed. Include private lands in the assessment.

RESPONSE: Application of the Wisdom Model to BLM-administered lands was modified to reflect shortcomings in BLM's existing database. For example, we do not have sufficient vegetation data on private lands to permit an automated analysis of existing alk habitat condition over all ownerships. This limitation was shared with ODFW at an early phase of our analysis. We have, however, developed an automated analysis to evaluate alk habitat condition on BLM-administered lands using the forest inventory database. Three of the four inclices are readily calculated using this method. The fourth index, the spacing index, can be calculated using automated methods but it is fairly cumbersome and time-consuming. With scattered private lands in many of the analysis areas, calculating the spacing index for only BLM-administered lands may be less meaningful than the indices produced for the other three variables. ODFW has developed criteria to approximate the spacing index by using proportions of over and forage.

Our automated procedure produces area tables to calculate habitat effectiveness indices and graphical outputs to display habitat condition. The procedure also produces acres of private lands within the analysis area (e.g., watershed or some other polygon). Thus, estimates of elk habitat condition on private land can be made and proportionally related to total acres of private land. Due to the vary limited amount of thermal and optimal thermal cover on private lands, plus the lack of forage seeding on much of this land, index levels are anticipated to be even lower than calculated values for BLM-administered lands only. This was the case in one sample district where this analysis was done using our gross vegetation therme as the database from which estimates on private land were made.

Evaluation of elk habitat condition was not extended to the subwatershed scale because we believed this to be most properly evaluated during watershed analysis as part of implementation planning than at the RMP/EIS level. This was also discussed with ODFW in the initial phases of our analytical work. At least one district used watersheds for the RMP/EIS analysis, but these areas were much larger than the 1-6,000 acre level suggested by the Wisdom model. However, these large watersheds can be subdivided into smaller subwatersheds which could serve as permanent compartments to keep records on elk habitat condition.

COMMENT: Set measurable goals for elk habitat effectiveness on a sub-watershed basis. Develop these goals in concert with ODFW.

RESPONSE: Goals have been developed by ODFW and are delineated in an ODFW document entitled "Plan Review Criteria to Conserve Fish and Wildlife Resources on Bureau of Land Management Forest Lands in Western Oregon."

COMMENT: Establish habitat goals to reduce bull elk vulnerability to harvest and relate to Oregon's elk plan.

RESPONSE: The goals established by ODFW for our elk habitat effectiveness indices are related to Oregon's elk plan.

COMMENT: Display the amounts of early successional stages in each alternative during the first decade. Identify the consequences to wildlife species heavily dependent on these stages.

RESPONSE: The total acreage of each seral stage at 10 years and 100 years is illustrated in Figures 4-2 and 4-3. The basic assumption underlying the analysis of effects in Chapter 4 is that timber harvest on the intermingled private lands within and surrounding the BLM operating area will provide adequate amounts of suitable early successional habitat for species dependent only upon the early seral stage - regardless of the alternative chosen by BLM. Our planning alternatives would add varying amounts to this base. Many species that use the early seral stage for one or more life needs are also dependent upon the presence of other habitat components within the early seral stage, such as snags, fallen trees (logs), residual green trees, etc. Consequences to these species are described in Chapter 4; see, for example, Purple Martin & Western Bluebird under "Effects on Special State on Misconder Cavity Users under "Effects on Wildlife"

COMMENT: Identify concrete proposals to create snags, including estimated budgets. Adjust ASQ to account for snags created over time.

RESPONSE: Among the objectives of the PRMP are to manage forest lands so as to retain 1) specific amounts of green tress which will provide srags in the future, and 2) all existing snags to the extent possible given essential considerations for worker safety. Amounts of timber volume to be foregone for this purpose have been estimated and the PSQ adjusted accordingly. Creation of snags from green trees will be accomplished through timber sale contact requirements and/or by separate projects, whichever is the most efficient use of public money. "Concrete proposals" to create snags can be developed only on a site-specific basis. Such proposals will "be identified in implementation plans which follow completion of the RMP.

COMMENT: Clarify assumptions and goals in modeling green tree retention and snag creation.

RESPONSE: The goal of snag modeling is to describe the process of snag management and quantify impacts on the timber and wildlife resource. There are three basic assumptions:

- Green trees retained following timber harvest will be converted to snags at future points in time so that adequate amounts of snag habitat will be available through the life of the new stand.
- Concerns about worker safety will prevent retention of all existing snags and in some situations snags will have to be created from green trees after timber harvest.
- 3. Green trees and snags left after harvest will become large woody debris when they fall.

COMMENT: There should be an assessment of wildlife usage before any snags are removed.

RESPONSE: All timber sale planning will include field inspections by biologists for the purpose of assessing current and future use of the planned sale area by priority species of wildlife, including cavity-users.

COMMENT: The Neitro et al. model used to address the effects of wildlife tree retention on wildlife is plagued by a myriad of problems. These problems cause the model to grossly overestimate the number of wildlife trees required to maintain healthy populations of dependent wildlife species. There is no documentation or justification for the even higher levels of wildlife tree retention proposed in the preferred alternative.

RESPONSE: Evidence presented by scientists at Oregon State University indicates the opposite. If anything, the model underestimates the amounts of habitat needed by woodpeckers since it is based only on woodpecker nest tree requirements and does not consider woodpecker forage substrate needs. Furthermore, the model does not consider the nest tree needs of several species of secondary cavity users that require tree cavities in early and mid serial stages. For example, snags are needed in new timber harvest areas to provide nest sites for

secondary cavity users such as bluebirds, purple martins, and other swallows even where surrounding forested areas have enough snags to serve as nest trees for woodpecker populations.

COMMENT: Identify by alternative how many acres of suitable pileated nesting habitat will be available and its distribution. Do the same for suitable goshawk nesting habitat.

RESPONSE: Available data does not make such information readily projectable. We believe the key question is species viability or persistence which has been addressed in the SEIS.

COMMENT: Use the Neitro et al. model to estimate current populations of woodpeckers for all seral stages. and allocations. Weight the estimated population levels by acres of each seral stage to obtain an overall population level. Display those data.

RESPONSE: The analysis was accomplished in this way. Detailed data are available on request.

COMMENT: Develop comprehensive prescriptions for managing snags to achieve and maintain the population goal for woodpeckers.

RESPONSE: The focus of the RMP is its objectives. Prescriptions must be site specific, varying with existing forest stand conditions, broad ecosystem management objectives and, where appropriate, timber management objectives. They will be developed in site-specific pans.

COMMENT: Assign population goals for woodpeckers for all land allocations.

RESPONSE: The PRMP allocations compartmentalize much of the landscape outside Late-Successional Reserves into typically small patches of GFMA and connectivity/diversity blocks separated by linear Riparian Reserves. In such a landscape, separable population goals by allocation are meaningless. Over the long term, sizes of snags retained would be suitable for all species although other habitat conditions may influence which species are most abundant. Pileated woodpeckers, for example, are expected to be more abundant in the reserves and northern flickers may be the most abundant woodpecker in the GFMAs.

COMMENT: Use the snag recruitment model by Neitro et al. to estimate how quickly green trees retained as future snags will actually become snags. Analyze whether potential snag densities will occur in the next 20 years if natural snag recruitment is insufficient. If it is insufficient, prescribe an active program of snag creation.

RESPONSE: Tree spacings that will result from density management and thinning under the PRMP are expected to forestail natural suppression mortality. There will be some natural recruitment of snags accruing from green trees retained specifically for this purpose. Snag creation through an active program will also be necessary since natural recruitment is not expected to provide enough snags over time. Snag creation through prescriptions will be developed on a site-specific also.

COMMENT: Evaluate the resource trade-offs of managing at the 80% population level for woodpeckers, recognizing that the Neitro et al. model likely underestimates woodpecker requirements for snags.

RESPONSE: The actual overall long-term effects of the PRMP approximates this level.

COMMENT: The lands should not be managed so intensely as to have to require artificial snag creation to provide viable populations of snag dependent species.

**RESPONSE:** Snag creation is planned primarily in the matrix in second growth stands that may be deficient in snags.

COMMENT: BLM does not adequately address the importance of its proposed management activities on neotropical migrants. Consider the July 1992 study on neotropical migrants in Pacific Northwest national forests.

RESPONSE: The habitat requirements of the 165 species of neotropical migrants as a group are so diverse as to preclude analysis of the group as a unit. The BLM is in the process of developing a monitoring strategy to begin to acquire the data necessary to analyze the impacts on each species of neotropical migrant. Currently, impacts of the various alternatives are identified for some of these species. Conclusions must be considered preliminary due to the lack of long-term studies.

COMMENT:	Address how logging practices are affecting the pond turtle.	
RESPONSE:	A discussion has been added.	

# Fich

COMMENT:	Specify goals and objectives for fish habitat.
RESPONSE:	Objectives have been added for the PRMP.
COMMENT:	What is termed fish habitat enhancement is actually restoration or rehabilitation.
RESPONSE:	It is enhancement of the current condition, but often is also restoration or rehabilitation.

COMMENT: BLM proposes a substantial amount of costly stream habitat restoration. Yacks restoration work in the Northwest has been poorly designed and has done little to reverse declines of many stocks. Future work should be planned on a 3rd-5th order watershed basis, be based on a thorough pre-treatment inventory, have clearly defined goals and objectives, and have a short and long-term monitoring plan. It should not be a substitute for protecting fish/this habitat from the effects of land management activities and should not be conducted in watersheds where watershed processes are not functioning naturally or where the effects of public and private land management activities combined will render restoration ineffective. It should be prioritized based on the needs of threatened stocks of anadromous fish.

RESPONSE: Watershed analysis will precede expensive restoration work. An interdisciplinary team will determine actual management prescriptions to achieve watershed standards based on site-specific requirements. It has been determined, however, that simple protection of existing aquatic habitat is not enough. Much of the aquatic habitat in the Pacific Northwest is in a degraded condition, thus, aggressive restoration efforts are necessary if depressed first stocks are to be rebuilt.

The BLM has been in the forefront in developing, monitoring and evaluating habitat restoration projects. These projects have been evaluated not just by the BLM, but in cooperation with Oregon State University. Coastal Oregon Productivity Enhancement Program and the Oregon Department of Fish and Wildlife. Evaluation has clearly shown that restoration projects can increase the survival of salmonids from eggs to smolts. However, recovery of the stocks depends on overall management of the stream and estuary habitat, and the harvest in the ocean and rivers. The BLM has no control over management of habitat on non-BLM lands, nor over fish harvest management.

COMMENT: The final RMP/EIS should include a comprehensive stream biological survey; identify watersheds supporting productive or valuable remnant populations or communities of native fishes, amphibians and other aquatic biota; and delineate a well-distributed network of least disturbed watersheds.

RESPONSE: We recognize the need for this information; however, it is not available at this time nor can it reasonably be acquired in a timely manner for inclusion in the PRMP/FEIS. As a part of implementation of the RMP, we will move to acquire this data. The BLM has recently released a strategy for the management of anadromous stocks in the Columbla and Snake River Basins which has as a central focus watershed level planning. A similar plan has been developed for the coastal areas of the Pacific Northwest and also includes watershed level planning as a central focus. This plan which will be published soon, is a road map of how the BLM intends to manage the fisheries of the region to meet the goals and objectives set forth in the RIMP.

COMMENT: Sensitive and priority aquatic habitat should be identified. Recovery and restoration plans should be developed based on a watershed analysis. In addition, fish habitat and sediment yield should be utilized to establish/predict habitat quality. Summarize subwatersheds where timber harvest emphasis would occur.

RESPONSE: Priority and sensitive habitats are identified in the FEMAT report and have been taken into account when developing the PRMP. Also see previous response. Sediment yield is not reliably predictable. Watershed analysis will be accomplished eventually on all watersheds and before management actions in key watersheds. Until that level of analysis is complete, it is not feasible to identify subwatersheds where timber harvest amphasis will occur.

COMMENT: Consider the information on aquatic resources in the Draft Recovery Plan for the Northern Spotted Owl, the Forest Service's strategy entitled PACFISH, and BLM Washington Office Information Bulletin 92-642.

RESPONSE: We are aware of this information and have considered it.

COMMENT: Identify and discuss the status of various wild anadromous fish stocks and habitat conditions within whole watersheds, not just BLM-administered portions. What is the relationship between habitat conditions and the severely depressed status of many stocks?

RESPONSE: We actively seek to cooperate with other landowners in developing and implementing plans for management of aquatic habitat. We are cooperating titly with ODFW efforts to identify and protect genetically unique fish stocks, and with management proposals to protect and enhance salmon and trout communities. However, ELM does not have any control over management of habitat on private lands, which is a state of Oregon responsibility. While we acknowledge that activities on private and state lands may affect habitat on ELM-administered lands, we recognize that private and state lands are managed under state regulations. We have taken these differences into account during impact analysis.

Habitat condition undeniably plays a role in the depressed status of many stocks; however, many factors other than habitat condition affect fish production (i.e. harvest, ocean conditions, etc.). These factors are not under the control of the BLM. Currently many watersheds are underseeded.

COMMENT: Analysis of impacts on fish is flawed because it fails to consider management activities on private lands, assumes that past damage will improve on its own, and ignores effects from continued timber harvest in upland areas.

RESPONSE: See previous response.

A component of the methodology used to establish condition ratings was the related factor analysis. This analysis adjusted the condition arrived at using the vegetation information to account for such related factors as the amount of new and existing roading, soil stability, and adjacent land management practices, to name a few.

COMMENT: The methodology for stream (fish) habitat quality rating is very simplistic and has not been peer reviewed. The conclusions about existing habitat quality are wildly optimistic.

RESPONSE: We have conducted extensive habitat inventories. Prior to 1980, the Salem District inventoried fish habitat conditions on 194 stream miles. Between 1983 and the present, the district has completed 137 miles of inventory using new, state-of-lhe-art micro-habitat survey procedures. These new procedures are similar to the survey methodologies used by the Forest Service and the Oregon Department of Fish and Wildlife. Analysis of the information obtained indicates a general relationship between the age and composition of the riparian community and the instream woody structure that creates fish habitat. The relationship is far from absolute, as we are aware, but vegetation is a good general indicator of the overall health of a system. In the absence of detailed data on all streams, we elected to use vegetation information as the best method for approximating stream health. However, this information was not the only information used to establish condition ratings. An equally important component of the methodology was the related factor analysis. See previous response.

This analysis method has been peer reviewed internally but has not received peer review outside the agency. ODFW has reviewed this methodology and provided helpful comments. We recognize that up-to-date stream inventories are needed but funding has been lacking. The data so far collected was used in developing this methodology.

COMMENT: The Fisheries Productivity Rating System needs further explanation.

RESPONSE: Refer to Appendix 4G in the Draft RMP/EIS for a description of the methodology used to calculate fish production capability. Data relating fish production capability to habitat condition was provided by ODFW. This data was considered to be the best available information and appeared reasonable when compared to current BLM habitat production capability data.

Our fish production estimates represent the potential capability only. Many factors other than habitat condition affect fish production (i.e. harvest, ocean conditions, etc.) and actual production will vary as a result of these other factors. Since these factors are not under the control of the BLM the actual fish production under a particular alternative will likely vary from what was predicted. However, the method used closs illustrate the relative difference among alternatives, thus providing a basis for management decisions.

COMMENT: Effects on fish should be measured against a desired future condition, not against current conditions.

RESPONSE: An environmental impact statement normally addresses the changes that alternative courses of action would cause from the present condition. Desired future condition or resource condition objectives, in the planning process, are developed for a specific alternative. They would differ for each alternative. The objectives provide the standards for monitoring the effects of the implementation of the plan, while the current conditions establish the baseline against which the effects on fish by the various alternatives can be measured. Although the FEMAT team made regional comparisons of some of their alternatives against independently derived possible larget conditions, those subjective ratings could not be replicated by BLM personnel on a single district basis.

COMMENT: The tables showing potential fish production capability are unproved, most likely inaccurate, and are misleading.

RESPONSE: Data used in developing fish production estimates was provided by ODFW. This data was considered to be the best available information and appeared reasonable when compared to habitat production capability data we have collected. However, estimates of future condition for all resources are unproven; the state of the at in resource management make such estimates unprovable. Many factors other than habitat condition affect fish production (i.e. harvest, ocean conditions, etc.) These factors are not under the control of the BLM. Thus, our fish production estimates represent the potential capability only and actual production will vary as a result of these other factors.

COMMENT: The mechanisms by which the 200-year increase in fish populations would occur are not provided. Acute and chronic stressors such as upstream sediment inputs from unstable slopes, landslides, roads and mining may continue to degrade fish habitat. In addition, migratory species may be limited by habitat utilized at a single life history stage.

RESPONSE: This has been dropped from the proposed resource management plan.

COMMENT: Use of the average diameter of trees to predict fish habitat trends is too simplified. Much more detailed information on stream variables related to fish survival is needed, such as substrate imbeddedness, stream temperature, presence of deep pools, dissolved oxygen, sedimentation, etc.

**RESPONSE:** These factors were considered when performing the related factor analysis used in combination with the riparian condition method.

COMMENT: There is no discussion of the very real possibility of loss of viability of some aquatic species, particularly anadromous fish stocks of concern. Consider the recent finding by ODFW that their index of coastal abundance greatly overestimated escapement and the status of wild coho stocks may be bleaker than once thought.

RESPONSE: We are aware of these findings. The SEIS addressed viability of aquatic species. Although we do not manage species, we are cooperating fully with ODFW efforts to identify and protect genetically unique fish stocks, and with management proposals to protect and enhance satimon and trout communities. The riparian and stream management in the PRMP will be adequate to protect existing habitat and to promote long-term recovery of diminished habitat on BLM-administered lands. However, the fate of many fish stocks will be influenced more by activities on other land ownerships and by regulation of fishing. Funding priority for rehabilitation and restoration efforts will reflect stock status.

COMMENT: Identify how closely the expected condition of the fishery resource will approach maximum potential.

**RESPONSE:** It is not possible to determine what the maximum potential is and the BLM does not control all factors affecting fish production.

COMMENT: The lands in the suitable timber base classified as fragile likely represent only the BLM's most erosive and landslide prone areas. Additional fragile lands occur throughout the Coast Range, making most logging and road building potentially hazardous for fish habitat.

RESPONSE: The most erosive and landslide-prone areas fall into Timber Production Capability Classification (TPCC) categories excluded from planned timber harvest. The potential hazards of TPCC categories available for harvest are taken into account during the design of timber sales and associated roads and appropriate measures incorporated to minimize impacts. For further discussion, see previous comment responses on Solis/ Ste Productivity.

# **Special Status Species**

COMMENT: Note the current status of species-specific management plans. Clarify whether site-specific management plans will be develop for the bald eagle and peregrine falcon, and when.

RESPONSE: Site-specific management plans termed Conservation Agreements are being developed for Special Status Plants. These are interagency plans developed between BLM, USFS and USFWG, which Identify and schedule specific management actions to prevent listing and to conserve these species. One plan for Aster gormanil for the Salem District has been completed. For animal species such as the bald eagle and peregrine falcon, the objectives of recovery plans will be the basis of BLM management. Watershed analyses will also result in the complation of some species-specific data that will be used ul in managing wildlife species.

COMMENT: Indicate what measures (inventories, buffers, site-specific management plans, consultation with the Fish & Wildlife Service, etc.) will be implemented to assure that actions such as timber harvest, road construction, grazing, and recreational use and development do not adversaly affect listed species.

RESPONSE: Federally listed species or habitat will be managed in compliance with the Endangered Species Act and BLM national and state office policy which will include conferencing and consultation with the U.S. Fish and Wildliffe Service. For species with completed recovery plans, management activities will be consistent with the plans' objectives. Inventories and Identification of buffers, seasonal restriction, and other project modifications are part of the process to ensure that actions are in compliance.

COMMENT: Identify the species expected to benefit from the OGEAs and how the OGEAs will contribute to habitat, forestalling listing, and/or delisting of each species.

RESPONSE: Reserves were not specifically intended to benefit special status plants. All special status plants, except for Assessment Species, will be managed in a way that will not contribute to the need to list, regardless of land allocation.

In general, species that will benefit from the Late-Successional Reserves are those whose daily and annual life cycle needs require habitat components provided in late-successional conifer forests. SFIS Special Attention Species closely associated with late-successional forests are identified in appendix F. In addition, chapter 3 discusses habitat requirements of Special Status Species. Some of these are currently federal-listed species. some are candidates for listing and others are not now nor probably will ever be in need of listing protection, but all benefit from the habitat conditions inherent in the Reserves, For example, the Reserves follow the intent of the Designated Conservation Areas of the Final Draft Northern Spotted Owl Recovery Plan. This plan and its components are designed to recover the spotted owl populations, but also provide habitat for a host of other species where the occurrence is in common. The Late-Successional Reserves are large tracts that will eventually have significant acreages of older forest. Species such as the marbled murrelet, goshawk, bald eagle (where the Reserves are near water bodies), salmonid fishes, and numerous species of small mammals, birds and amphibians will be able to sustain populations in these areas. A given Reserve may contain several populations of a given salamander species while for more far-ranging species such as the goshawk and spotted owl it may require multiple Reserves to serve the needs of a population. Key items in the Fish and Wildlife Service's review of whether a species should be listed or delisted are whether the habitat of the species is being lost and whether there are regulatory mechanisms in place to protect the species. The Reserves serve as cornerstones for meeting both of these items of concern and thus should weigh heavily in the listing/delisting considerations. The viability ratings in the SEIS also provide an indirect identification of species expected to benefit.

COMMENT: The federal status of several species is incorrectly noted.

RESPONSE: The special status species list has been corrected and updated.

COMMENT: Consultation under the Endangered Species Act regarding effects of activities on mining claims on federally listed threatened and endangered species is the responsibility of BLM.

RESPONSE: Consultation with USFWS for mining is the responsibility of the claimant if there is a notice of intent in place. It is the BLM's responsibility if there is a plan of operation filed. However, we would certainly be in contact with the USFWS in both cases, regardless of responsibility for consultation.

COMMENT: A minimum viable population of a species is on the brink of catastrophe. Managing special status species for populations above the minimum is recommended.

RESPONSE: Our goal is to manage for healthy populations of all fauna and flora, including special status species, by employing policies, land use allocations, and management direction that will ensure stable populations.

COMMENT: Inventory sensitive wildlife species.

RESPONSE: Inventories are an ongoing process but are not a standard decision element of an RMP. Wildlife inventories are very expensive and thus subject to budget constraints.

COMMENT: The DEIS violated NEPA by failing to adequately analyze the effects of the RMP on marbled murrelets, songbirds, declining amphibians, western pond turtles, many important species of plants sensitive to disturbance and candidates for the endangered species list.

RESPONSE: In the RMP/EIS, those effects are analyzed at a level of detail consistent with what is known about the habitat needs of the many species at issue. They are also analyzed in the SEIS. Monitoring is a critical component of the RMP and will increase our knowledge of habitat needs. This information will be used to adjust management strategies whenever necessary in order to ensure that management objectives are achieved.

COMMENT: Provide clear direction for site-specific protection of other Oregon sensitive (wildlife) species. The preferred alternative should contain allocations and management standards for bald eagles, peregrine factors, wild turkeys. Townsend's big-eared bats, great blue herons, and band-talled pigeon mineral springs. It should also commit to develop site specific habitat management plans for each known site and other sites as they are found.

RESPONSE: The PRMP contains management direction for various wildlife species. In many cases, allocations such as reserves and special management areas, will provide habitat for wildlife species. The concept of cosystem management is to provide habitat sufficient to meet the needs of all wildlife species rather than to provide species-by-species allocations. Chapter 4 provides species by species discussions of how the allocations will serve the species, where the RIMP allocations and prescriptions are not sufficiently detailed to guide management of these species, a habitat management plan will be prepared.

COMMENT: The treatment of marbled murrelets is inadequate.

RESPONSE: The discussion of marbled murrelets is expanded in the PRMP/FEIS.

COMMENT: Commit to a process for identifying all marbled murrelet nesting habitat and flight corridors, in consultation with the US Fish and Wildlife Service. Help fund and accelerate research on murrelet use of BLMadministered habitat.

RESPONSE: Provisions in the PRMP call for general inventories of BLM-administered lands for murrelets. Additionally, all proposed project areas will be surveyed according to protocol for murrelets (which requires two years of site visits) prior to implementing any projects. All lands where murrelet occupancy is confirmed will be unavailable for planned timber harvest. Research on marbled murrelets is a priority.

COMMENT: Clearly state the impacts on marbled murrelet habitat on BLM lands, not merely the overall future conditions on all lands.

RESPONSE: Impacts to the identified marbled murrelet habitat on BLM-administered lands are specifically addressed in Chapter 4.

COMMENT: Analysis of murrelet habitat loss should consider areas of mature forests with some old-growth trees as possible murrelet habitat.

RESPONSE: The definition of potential marbled murrelet habitat includes mature stands with scattered old growth trees, thus that acreage was included in the analysis of effects.

COMMENT: All potentially threatened stocks of wild anadromous fish on BLM-managed lands should be included on the list of special status species.

RESPONSE: This has been accomplished in chapter 3.

COMMENT: Take a more active role in improving habitat for sensitive fish species and stocks. Describe more completely how the preferred alternative will affect sensitive fish stocks and how adverse impacts would be mitiated.

RESPONSE: The BLM does not manage species or communities; we do manage the habitat on which these species depend. We are cooperating with ODFW efforts to identify and protect genetically unique fish stocks, and with management proposals to protect and enhance salmon and trout communities. Habitat restoration is an important component of the PRMP. We also have a monitoring program for salmon and steelhead.

COMMENT: Identify all existing sites for listed and candidate plant species. Work with other state and federal agencies to prioritize their study and monitoring.

RESPONSE: Sites for listed and candidate species are mapped on our GIS. As new sites are discovered through inventory they will be added to the GIS. Inventory will continue throughout the life of the plan. Extensive coordination already occurs with state and federal agencies and private organizations. Memoranda of Understanding and/or Cooperative Agreements have been developed with the Oregon Department of Agriculture, the Oregon Natural Heritage Program, The Nature Conservancy, and the Center for Plant Conservation.

In addition to memorandums of understanding and cooperative agreements, interagency management plans called conservation agreements are being developed between all federal kandowners throughout a species range. Cost share agreements are in place for studying and monitoring many listed and federal candidate plant species.

COMMENT: Discuss the effects of management alternatives on special status plant species similarly to the discussion of effects on special status animal species. Bureau sensitive plant species get too little attention. Use the ONHP list for identifying habitats of plant species that could be come threatened or endangered.

RESPONSE: Special status plants are not discussed individually because of the large number of special status plants and the limited amount of information available on their biology. More research is needed before more can be said. The ONHP list provides only species names and status and can not be used to identify habitats. Location information for the District which is stored in the ONHP Element Occurrence Database was provided for the most part by BLM personnel. Location information is exchanged between the ONHP and the BLM on an annual basis under a Memorandum of Understanding and Cooperative Agreement.

COMMENT: All plant species on the Oregon Natural Heritage Program sensitive list should be considered in the RMP/EIS. Standards addressing the protection of ONHP sensitive species and their habitats should be included in all land use allocations. The orientation of management for sensitive species should shift from individual species and habitats to ecosystems.

RESPONSE: Plant species occurring on BLM-administered land which are identified as threatened or endangered on the ONHP's sensitive lists are addressed in the PRIMP. Species on the ONHP's tour sensitive lists have widely varying needs for management. The BLM Oregon State Office special status species policy includes all plant species in the ONHP lists, according different levels of attention based on the specie's ensitivity. Plant species on BLM-administered land which are threatened or endangered throughout their range (ONHP List 1) are federal candidate or bureau sensitive species; those threatened or endangered in Oregon but more stable or abundant elsewhere (List 2) are BLM Oregon/Washington assessment species and are addressed in the RMP. Plant species on List 3 ("weirow") and on List 4 ("watch") are BLM Oregon/Washington tracking species. They are identified by ONHP as species needing more information (List 3) and as being of concern but not presently threatened or endangered (List 4). When funding permits, we would collect information on tracking species but special management is not planned.

The PAMP provides management direction for those species considered in jeopardy of extinction and in need of special management attention. This includes federal listed, federal proposed, federal candidate, state listed, and bureau sensitive species. These species were identified from U.S. Fish & Wildlife Service lists of federal listed, proposed, and candidate species, state of Oregon lists of state listed and candidate species and ONHP lists. Management strategies for special status plants do not vary with land use allocation in the PRMP. The PRMP will provide for ecosystem management to protect special status species.

COMMENT: To follow state and federal guidelines, rare plant habitats should be "protected" rather than "managed".

RESPONSE: Proposed management prescriptions are in full compliance with all state and federal guidelines. "Protection" alone will not be sufficient for maintaining many plant species. Active management such as prescribed fire may be necessary to maintain or restore the structure and function of certain plant habitats.

# Spotted Owl

COMMENT: There is no scientific evidence that the forest structure needed as spotted owl habitat can be grown over time using long rotation forestry.

RESPONSE: Although the evidence may not be complete, there is promise that long rotation forestry may produce suitable spotted owl habitat. For that reason the BLM has initiated research to aid future forest managers who will deal with the issue in the next centryr. The BLM will maintain all suitable habitat in Late-Successional Reserves and foster old growth forest conditions in the current young forests in the Late-Successional Reserves as they mature.

COMMENT: Address management direction for timber sale areas exempted by the Endangered Species Committee in 1992.

RESPONSE: The BLM will not pursue the harvest of any of the previously planned timber sales exempted by the Endangered Species Committee. Harvest may occur at a future time on the same land acres, but the prescriptions will not Jeopardize the continued existence of the spotted owl or any other federal-listed species.

COMMENT: Identify the standards under which known spotted owl nest sites will be protected.

RESPONSE: At a minimum, at least one center of activity at all known sites of resident single and territorial pairs of northern spotted owls known as of January 1, 1994, will have up to 100 acres of the best available surrounding habitat excluded from timber harvest. Obviously, sites that fall within Reserves or Special Management Areas would have more acres protected surrounding the site.

COMMENT: Clarify whether surface occupancy for mining activities will be allowed in northern spotted owl sites.

RESPONSE: As a general rule disturbances, such as surface occupancy, would not be authorized within 0.25 miles of a northern spotted owl site. This will however vary by site and by season of the year so it is not an absolute exclusion. In instances where the mining activities can occur in harmony with the owl occupancy of the site, efforts will be made to accommodate the mineral resource use.

COMMENT: BLM proposed inappropriately to provide connectivity for spotted owls by managing connectivity areas.

RESPONSE: The purpose of connectivity/diversity blocks is to serve a variety of wildlife species, not only spotted owls. Connectivity/diversity blocks, along with other allocations such as Ripartan Reserves and Special Management Areas, are expected to mix with the General Forest Management Areas to provide for dispersal of many species including spotted owls.

COMMENT: Explain how the connectivity areas compare to the 50-11-40 rule outlined in the ISC report.

RESPONSE: In five or six decades, management of BLM-administered lands within a quarter township in a connectivity-diversity block will meet or exceed 50-11-40. In the short term there will be quarter townships where this is not true but in these areas conditions will not decline and recovery will occur in future decades.

COMMENT: The adequacy of connectivity areas for spotted owl dispersal should be demonstrated.

RESPONSE: That can only be demonstrated through monitoring. Given other requirements of the plan, it may be impossible to isolate the effects of connectivity/diversity blocks.

COMMENT: Several activities are proposed in deferred OGEAs that appear inconsistent with the draft spotted owl recovery plan. These include density management in older second growth and large scale salvage.

**RESPONSE:** OGEAs have been dropped from the PRMP. Activities in Late-Successional Reserves must be beneficial to the spotted owl and pass review under the auspices of the Regional Ecosystem Office.

COMMENT: The potential effects of low habitat, low population and reduced dispersal, on the survival of the spotted owl should be addressed.

RESPONSE: A discussion of this subject has been added to chapter 4.

COMMENT: Assess the viability of the spotted owl under the preferred alternative, in the short term, at the lowest point in habitat development, and in long term.

RESPONSE: An assessment of the viability of the spotted owl included in the SEIS, is referred to in chapter 4 of the PRMP/FEIS.

COMMENT: Evaluate the effects of the plan on designated critical habitat.

RESPONSE: An assessment of the effects of the plan on designated Critical Habitat has been added to the analysis of effects. No actions will be implemented that will result in the destruction or adverse modification of Critical Habitat.

COMMENT: The discussion of the discrepancy between the spotted owl population model's projection of current population and the observed population should include problems with the model.

RESPONSE: Since SEIS Appendix J superseded our analysis, we have not rerun the McKelvey model for analysis of the PRMP except to acknowledge and reference the SEIS analysis.

COMMENT: Assess the risk that density management would negatively affect suitable spotted owl habitat.

RESPONSE: There is no density management proposed in suitable owl habitat in the Reserves or in occupied residual habitat areas in the matrix. Otherwise, owl habitat in the matrix is available for management, and loss of habitat over time in the matrix is acknowledged.

COMMENT: Evaluate the level of risk to the stability of spotted owl populations under the preferred alternative.

RESPONSE: The Chapter 4 discussion has been expanded to describe risk in general terms. The SEIS evaluates risk from the (new) PRMP as it integrates with other Federal plans.

COMMENT: Provide information on the quality and distribution of suitable spotted owl habitat after 100 years. Identify the extent to which the development of future habitat is dependent on the ability to create or speed its development through silvicultural practices.

RESPONSE: Information on the acreage of suitable habitat expected on BLM-administered lands after 100 years is provided in tabular form in chapter 4. The development of quality habitat is dependent on time. The younger stands of today that hold the key to habitat recovery will be 100 to 140 years of age in 100 years. In this age range, stands are beginning to move from primarily foraging substrate to high quality foraging and nesting habitat. The role of density management is to diversity the stands structurally so that they might attain the higher quality status at approximately 120 years of age. The silvicultural practices serve as an enhancement technique be ratarded and the time till habitat on line faster. If it is not successful, however, stand development could be ratarded and the time till habitat conditions were reached could be lengthened. Many of the answers to questions on this topic are unknown at this time, but the objective is to apply the management prescriptions over time within an adaptive management ir amwork.

COMMENT: Discuss the capability of OGEAs, and the management proposed within them, to maintain population levels sufficient to provide internal stability within them.

RESPONSE: This capability, in relation to Late-Successional Reserves, has been fully addressed in the SEIS.

COMMENT: Given the lack of experience in developing and maintaining old growth characteristics capable of supporting viable populations of spotted owls and the lack of detailed knowledge on the components of structurally diverse forest important to spotted owls, the prediction that as much as 40 percent of the OGEAs may be subject to density management increases the risk of catastrophic failure of the network concept. Evaluate the risk of failure of the techniques and the potential impact on the species of such at failure.

RESPONSE: The Chapter 4 discussion has been expanded to address this concern as it now relates to Late-Successional Reserves, and it is addressed in the SEIS.

COMMENT: Specifically assess the effects of the preferred alternative on spotted owls in the Coast Range province.

RESPONSE: This is fully addressed, province-wide in the SEIS.

COMMENT: Indicate how spotted owl dispersal will be maintained.

RESPONSE: Dispersal habitat for owls will be provided by the vegetation pattern and condition inherent in the management allocations and prescriptions of the Late-successional Reserves, Riparian Reserves, Special Management Areas, Connectivity/diversity Blocks and the General Forest Management Areas.

COMMENT: Provide rationale or documentation for the statement that isolation is not thought to be a factor under the preferred alternative.

RESPONSE: The issue of isolation of segments of the population was addressed in the Final Draft Recovery Plan for the Northern Spotted Owl and was accounted for by the size and arrangement of Designated Conservation Areas and the management of the matrix between them. The PRMP adopted the reserve system identified in Atternative 9 of the SEIS and will manage the intervening Special Management Areas, connectivity/diversity blocks and General Forest Management Area lands to ensure adequate survival and movement of young owls.

COMMENT: Discuss the impact of the preferred atternative on all quarter townships, not just those in connectivity areas. Evaluate how the deficient (re the 50-11-40 rule) quarter townships are distributed and how their location affects inter- and intra-provincial dispersal.

RESPONSE: The discussion of dispersal habitat under the PRMP addresses dispersal on lands outside the late-successional reserve system.

# Special Areas

COMMENT: Protection of ACECs instead or additionally as Outstanding Natural Areas (ONAs) is needed to assure truly meaningful agency protection.

RESPONSE: Outstanding Natural Area is a recreational designation (CFR 8352.0-2) and is not be appropriate for all ACECs. The Federal Land Policy and Management Act requires protection of all the relevant and important natural features for which an ACEC is designated. ACEC designation provides adequate protection under existing law and policy. Secondary designations such as RNA or ONA have been provided for some ACECs only to clarify management objectives.

COMMENT: All ACECs should be posted to prevent unintentional use, and should be closed to off-road vehicle use.

**RESPONSE:** Posting and other protective measures will be undertaken for each ACEC, commensurate with values at risk, threats from inappropriate uses, and physical and biological factors. Actions taken to prevent

unintentional uses will depend on the primary values for which an ACEC was designated and will be developed during watershed analysis and/or project planning after completion of the RMP.

COMMENT: A stronger policy is needed to prevent the harvesting of "minor forest products" from special areas.

RESPONSE: A stronger policy has been developed for minor forest products, which are now referred to as special forest products. The discussion of them has been expanded. See chapter 2, Special Forest Products.

# **Cultural Resources**

COMMENT: The cultural resources discussion does not accurately address governmental bodies of federally recognized Indian tribes.

RESPONSE: The text has been revised to identify such bodies by the appropriate names or collectively refer to them as "federally recognized Indian tribes" or as "Indian nations."

COMMENT: The cultural resources section of the document should include interaction and consultation with appropriate tribal governments regarding cultural/archeological issues.

RESPONSE: The chapter 2 discussion of Cultural Resources has been expanded to address these interactions. The provision of the draft RMP to the tribal governments is regarded as the first step in the consultation process. Further interaction and consultation regrading site-specific actions of tribal interest can be initiated either by the tribe or by the BLM as tribal concerns are identified, BLM has suggested (and is in the process of consulting about with each of the tribal governments) the development of Memoranda of Understanding that will encourage more interaction and consultation between the tribal governments and the BLM.

### Visual Resources

COMMENT: Describe existing visual conditions along major highways, identify those segments appropriate for visual management, and direct management plans to achieve expected future conditions.

RESPONSE: BLM-administered lands have been inventoried, evaluated and assigned inventory classes based on their relative worth from a visual resource management point of view. Chapter 3 describes the results of the inventory process. The alternatives recommend various classes of visual resource management for BLMadministered lands including lands along major highways. Each visual resource management class has objectives (See chapter 2) and these objectives are used to identify management prescriptions that would maintain, enhance, or preserve scenic values.

COMMENT: Long-term visual management objectives should consider the use of silvicultural practices to accomplish the VRM objectives.

RESPONSE: Such practices will be used in VRM class II and III areas, where consistent with land use allocations protective of other resources. See PRMP Management Actions/Direction.

COMMENT: Work with adjacent landowners and others to maintain visual continuity.

RESPONSE: BLM has authority or responsibility for visual resource management only on BLM-administered lands. We will work with Interested adjacent landowners to coordinate visual resource management primarily during watershed analysis.

# Wild and Scenic Rivers

COMMENT: State whether BLM land management actions that could impact designated State scenic waterways will be coordinated with the State.

RESPONSE: This coordination will occur in accordance with the Memorandum of Understanding for River Management between BLM, the Forest Service, and the Oregon Parks and Recreation Department.

COMMENT: Clarify how technical procedures were used by BLM to determine wild and scenic river suitability.

RESPONSE: Although a number of explicit technical criteria were used to determine which rivers would be found suitable under alternatives A, B, C, D, and E, the suitability findings in the PRMP were based on a more subjective weighing of these criteria plus public comment on the various rivers.

COMMENT: Consider the following additional criteria in suitability determinations.

a. Aggregated values of a given stream.

b. Importance of aggregated values on both a statewide and SCORP regional level.

c. Importance of smaller "less stellar" streams to program.

d. Non-local as well as local support for a given stream.

RESPONSE: These factors were considered in the PRMP.

COMMENT: How is it possible to recommend a given eligible river segment for national wild and scenic river status in one alternative and not in another?

RESPONSE: To show a range of alternatives the variation is based on the relative importance attached to economic tradeoffs, quality of the river segments, and manageability of cutstandingly remarkable values by BLM. The purpose of alternatives is to consider varying management direction and resource allocations.

COMMENT: Wild and scenic river suitability is not based on a "Top Four" recognition.

RESPONSE: The "top four" assessment was used to structure alternatives B, C and D but was not directly used in the suitability findings process for the preferred alternative (Draft RMP/EIS) or the PRMP.

COMMENT: The cursory suitability studies in the RMPs do not fulfill the BLM policy requirement. It is especially important to evaluate degradation to ORVs should a river not be given wild and scenic status.

RESPONSE: The wild and scenic river assessment reports in appendix 2-L of the Draft RIMP/EIS were prepared in accordance with BLM policy. Probable degradation of ORVs, should a river not be given wild and scenic status, is addressed in the section of each report titled Effects on Outstandingly Hemarkable Values.

COMMENT: Another management option does not preclude wild and scenic status. RMPs are not permanent and will no doubt change. BLM should protect those rivers deserving of such status.

RESPONSE: The suitability findings considered all those aspects of the question.

COMMENT: The alternative management options for "not suitable" rivers may not give them protection comparable to wild and scenic status.

RESPONSE: The "not suitable" rivers were all found to be eligible for recreational classification only. Proposed riparian reserve widths on these segments are approximately 400 feet on each side of the stream, subject to some modification after watershed analysis. These widths and other management direction outside the riparian reserves would provide comparable or better protection than that envisioned by the Wild and Scenic Rivers Act for the portions of these river segments crossing BLM-administered lands.

COMMENT: All values on eligible rivers should be maintained at their current level until Congress acts.

RESPONSE: Neither the Wild and Scenic Rivers Act nor any related policy suggest that an agency's negative suitability determinations on eligible rivers will be referred to Congress for action. The standard protocol is that

the agency's negative determination resolves the issue.

COMMENT: How long will interim management occur on eligible rivers not studied in the RMP.

RESPONSE: Since BLM has no plan to study these rivers and neither does any other agency, interim management may last a long time.

COMMENT: Interim guidelines for eligible wild and scenic rivers result in de facto designation and management of those rivers in violation of the Wild and Scenic Rivers Act and FLPMA. Further, the interim guidelines exceed the Department of Interior's own regulations by excluding timber management activities along these rivers.

RESPONSE: The de facto designation is only for the period until suitability is determined or, if found suitable, a river's status is settled by legislation. This is consistent with FLPMA and in accordance with the Wild and Scenic Rivers Act. Timber management activities are excluded within the 1/2-mile-wide corridor for protection of such rivers only if they are eligible for wild classification.

COMMENT: The simple fact that a river has anadromous fish, scenic or recreational qualities does not qualify it as eligible for further study under the Wild and Scenic Rivers Act.

RESPONSE: True. The values must be found to be "outstandingly remarkable" under the terms of the Act.

## Recreation

COMMENT: Coordinate with State and local government on actions which may influence the Regional Strategies and Community Initiatives programs. Develop a multiple agency recreation planning program to promote recreational development and tourism.

RESPONSE: Such coordination is provided for in the plan and discussed where relevant but specific multiple agency planning is an implementation planning process function, not a part of the RMP.

COMMENT: Develop trail plans.

RESPONSE: Trail plan development is a part of project planning which would follow RMP completion and watershed analysis.

COMMENT: Include provisions for designating areas to meet off-road vehicle demand.

RESPONSE: BLM policy states that off-highway vehicle use is acceptable wherever it is compatible with established resource management objectives. BLM-administered lands remain open to such use unless specifically closed or limited. After completion of the RMP, the district will develop an OHV implementation plan with more specific management provisions.

COMMENT: Strengthen standards and guidelines for ORV use.

RESPONSE: Those guidelines are contained in the bureau's regulations (43 CFR 8340). Revision of those regulations is beyond the scope of the RMP.

COMMENT: Use of the term "off-road vehicle, rather than "off-highway vehicle," implies that vehicles leaving roads or trails is OK, which is not so.

RESPONSE: The term has been revised to off-highway vehicle.

COMMENT: Incorporate the ROS rating system into the final plan.

RESPONSE: Due to the fragmented land ownership pattern and the density of the existing road system on BLM-administered lands in the planning area, ROS is considered largely irrelevant to BLM decisions there. ROS concepts will be used at the watershed analysis and/or activity planning stage for specific land areas where appropriate.

# **Timber - Management Direction/Practices**

COMMENT: Timber supply does not appear to be an important part of alternative formulation.

RESPONSE: Timber supply was a consideration, both in the RMP/EIS and the SEIS. Since timber supply concerns paralleled concerns regarding socioeconomic conditions, which had higher visibility, its role in the formulation of alternatives was less visible.

COMMENT: Discuss the Bureau's willingness to accept "departure" from nondeclining yield. If management in OGEAs is modified in the future, then harvest in future decades will change.

RESPONSE: Implicit in any decadal or other cyclical planning process is that management guidelines will change when the plans are revised. New information from research and monitoring and new legislation and policies may drive such changes. In subsequent planning cycles, the identified sustainable harvest may decline or increase, but is unlikely to stay the same. That perception does not make the currently estimated sustainable timber harvest a "departure". A departure is a deviation from currently estimated sustainable levels.

### COMMENT: Explain the rationale for minimum harvest ages.

RESPONSE: The minimum harvest age is the youngest age at which a forest stand would be considered for regeneration harvest in the harvest scheduling model. Minimum harvest age may be set equal to or less than the target rotation age. A younger minimum harvest age is used where there are few available acres of stands at or above rotation age, but an abundance of younger merchantable age classes. This is the case in the GFMA portion of the Columbia Sustained Yield Unit of the Salem District, where the minimum harvest age for the first decade is set at 60 years. Use of this short term reduction in harvest age provides the flexibility to begin moving the managed portion of the forest toward a long-term balance in age class distribution and forest condition. In the long term, most regeneration harvest would take place at or above the target rotation age.

COMMENT: The RMP calls for harvest of one-quarter of the stands 100 to 200 years old during the next decade, a rate not sustainable.

RESPONSE: The requirement that harvest be sustainable is applicable to harvest from all age classes combined, not to separate age class groups. The PRMP will harvest some 51,300 acres or about 12 percent of BLMadministered land in the Salern District. Projections indicate that during the first decade, approximately 4,400 acres of stands 100 to 200 or more years of age would receive regeneration harvest. This is about 4.4 percent of the acreage of such stands on BLM-administered lands in the Salern District.

COMMENT: There are no provisions for phasing down timber harvest levels. BLM should consider a onedecade departure from the non-declining harvest level.

RESPONSE: BLM's sustained yield mandate makes no provision for such a phase down of planned harvest (PSQ). BLM lacks such authority, other than for a departure which would cause a negligible subsequent drop below sustained yield levels. The stand conditions on lands available for timber harvest in the PRMP, and overall plan objectives, would cause any significant departure to result in substantial drop in sustained yield levels in future decades.

COMMENT: The practicality is questionable of logging patches of five acres or less and of leaving a few green trees per acre (which might be genetically inferior but would likely overstock planted regeneration areas if not blown over first).

RESPONSE: Because of the network of Riparian Reserves criss crossing Matrix lands, regeneration harvest units under the PRMP would often be small and scattered, or long and narrow. This would result in higher logging costs, but in most cases, harvest is expected to be economically feasible regardless of unit size. Reserved green trees would include some of the larger diameter trees in the stand, and would not necessarily be genetically inferior. It is expected that seed from the reserved trees will often contribute to reforestation of harvested areas.

COMMENT: It is inappropriate to include "deferred" old growth areas and watersheds in the timber harvest assumptions.

RESPONSE: The O&C Act requires BLM to identify the sustainable harvest level. There are no longer any "deferred" areas.

COMMENT: Lack of trained silviculturists may be a barrier to implementing the proposed silvicultural activities.

RESPONSE: We recognize a need to modify our skill mix and provide or obtain additional training.

COMMENT: More detailed silvicultural prescriptions are needed.

RESPONSE: Due to the somewhat experimental nature of many prescriptions, they must be adaptive and variable from site to site, as we learn from our own experience and that of others attempting active ecosystem management.

COMMENT: It is difficult to determine how proposed silviculture will actually influence stand growth, yield and structure.

RESPONSE: While silviculture is not an exact science, there is a considerable body of literature documenting the growth, development and yield of Pacific Northwest forest stands under a variety of magment regimes. We believe that the state of the art is such that the general results of silvicultural manipulation of the young stands can be predicted with a reasonable degree of confidence. The outcome of any specific treatment is not certain. Thus the adaptive management approach will be used to continuously refine and adjust silvicultural practice to better attain management objectives.

COMMENT: Use of formaldehyde as a binder in fertilizers is illegal.

RESPONSE: The use of formaldehyde in fertilizers is not illegal. When selecting products for use, federal agencies screen for the presence of formaldehyde and select products without it if they are similar in effectiveness. For aerial fertilization, only pelletized fertilizers are considered highly effective because their weight carries them through the canopy to the forest floor. The only binder commonly used for pelletizing is formaldehyde, which forms urea into hardened crystals that not only prevent dusting but protect against caking and provide slow release of the fortilizer.

COMMENT: The court injunction on BLM's use of herbicides has not been lifted.

RESPONSE: As long as the injunction remains in place, herbicides will not be used. The probable sale quantity (PSQ) is not dependent on the use of herbicides, but in the absence of their use on a long-term basis, costs of management would increase.

COMMENT: The plan makes no allowance for failure to meet timber production goals that hinge on the success of intensive management practices. Past efforts to increase yields through intensive management have failen short of expectations.

RESPONSE: During the period 1984-1992, the BLM's investments in intensive management practices supported only 90 percent of the planned timber sale volume, but 117 percent of the timber volume actually offered

for sale. Under the PRMP, timber sale volumes would be reduced below the PSQ if investments in timber management drop significantly below planned levels.

The use of intensive management practices such as precommercial thinning, fartilization, and genetic selection will increase the amount of harvestable timber available in the future. This will be important because a greater proportion of future harvest will be derived from density management and commercial thinning.

COMMENT: The ASQ should be reduced to reflect realistic assumptions for funding intensive management practices.

RESPONSE: Annual timber sale levels will be adjusted to reflect any sustained shortfall in funding for the intensive management practices on which the PSQ is partly contingent. The PSQ itself property estimates the level of harvest that is biologically sustainable given the agency's management direction.

# Timber - Productivity/Sustainability/Forest Health

COMMENT: Set specific goals and objectives for forest health, detailing how proposed management strategies will address it and what measures will be implemented to improve unhealthy forest conditions.

RESPONSE: Ecosystem (forest) health was defined by FEMAT as the state of an ecosystem in which processes and functions are adequate to maintain diversity of biotic communities commensurate with those initially found there. As such the concept includes the condition and characteristics of stands and landscapes we considared under the topic of Biological Diversity and Ecological Health. General forest health and ecosystem diversity and function goals were set as part of the PRMP. The result of application of these goals at the planning level and the extent to which the plan alternatives will result in forests which are within the range of natural conditions is described in Chapter 4. Further analysis will occur in watershed analysis.

COMMENT: Assess forest health issues, particularly the role of salvage operations.

RESPONSE: Salvage operations will harvest the result of accelerated mortality of trees caused by poor forest conditions in periods of drought or other environmental stress. Attainment of higher levels of forest health will result in mortality declining to levels which are normal for relevant seral stages. Salvage does not by itself have a positive ecological effect and may have a negative effect if carried to excess.

COMMENT: The BLM plans timber harvest rotations of 60 years, close to the rotation period the FORCYTE-II model suggests is unsustainable.

RESPONSE: The FORCYTE-II model suggests that harvest rotations of less than 50 years would be unsustainable, particularly when accompanied by moderate intensity slash burning, and with added nitrogen farilizer. The proposed plan would harvest some timber as young as 60 years of age during the first decade, but all subsequent harvest would occur at stand age of 70-80 years or more. Moreover, not all harvest areas would be burned, and many of the burns would be of light intensity. Most stands in the General Forest Management Area would be fertilized in conjunction with thinnings. Projections indicate these harvest cycles would be sustainable.

COMMENT: Failure to retain the large old insect resistant trees has been attributed to much of the forest health problems presently being experienced in the Northwest.

RESPONSE: Resistance to insects is a function of tree/forest vigor more often than size or age of individual trees. Vigorous low density widely spaced trees rarely succumb to insect problems. In stands where density is greater than long term site potential to support vegetation during drought periods the vigor of trees is lower. Insects, disease or fire thin out the most susceptible trees.

Size of trees is a factor in resistance to natural disturbance regimes such as frequent fires that reduces forest density by killing trees with thin bark and/or foliage that provides fire-ladders. Older trees are insulated from such

thermal intrusion and normally have elevated tree crown bases. Selective harvesting of older-larger sized trees or removing older stand components has contributed to homogenous stands in fire prone areas, lowering overall stand fire resistance and thus patch survival following catastrophic events.

Not permitting fire to play its traditional (natural) function has had a significant impact on eastern and western Oregon. In fire-prome areas removal of the large fire resistant trees has also contributed to problems in implementing underburning to reduce density of brush/hardwoods/understories of confers. In moderately to very dense stands the recent drought cycle has placed some of the largest trees within these stands at risk since they have not been able to compete successfully for limited soil moisture. Once weakened or killed by drought, they are readily attacked by insects.

COMMENT: Existing conditions of insects and diseases are not addressed or are superficially addressed and quantitative data are not included. Little or no effort is made to project effects of new management practices on future insect and disease impacts.

RESPONSE: This is an emerging issue that was not identified during scoping of the plan. Consequently, previous inventories did not address such existing conditions. These concerns are part of the focus of ecosystem management, but too little is known for us to forecast comparative outcomes. As we learn more, our management will adapt.

COMMENT: The plan indicates that a control methods will be applied to insects and pathogens if large outbreaks develop. A prevention approach, never allowing outbreaks to develop, is preferable.

RESPONSE: A preventive approach is preferred for insect and pathogens as well as dealing with competing vegetation and animal damage. Identifying ecosystem potentials, using density management and underburning appear to be the preferred prevention/control method.

COMMENT: Forest health is not defined.

RESPONSE: Discussion has been added to chapter 3, which includes a definition.

# Timber - ASQ/PSQ

COMMENT: Include a discussion of the ASQ philosophy and identify whether the ASQ is a goal or a mandated level of timber production.

RESPONSE: A discussion has been added to the introduction to Chapter 4.

COMMENT: Clarify growth and yield assumptions.

RESPONSE: A general description of growth and yield assumptions and the modelling procedure used for each SYU is contained in appendix BB to the PRMP/FEIS. The actual yield tables used are available for review at the district office.

COMMENT: The approach used for incorporating genetic improvement into the growth and yield models is inappropriate.

RESPONSE: Predicted genetic gains are based on individual tree growth differences in young progeny evaluation plantations. We recognize that it has not yet been demonstrated that these gains are achievable as per-unitarea yield gains at rotation. Field tests comparing performance of improved and unimproved stock continue to be established to verify the estimates. The Northwest tree Improvement Cooperative, of which IBUM is a member, has initiated a series of genetic gain triats to evaluate genetic gain on a yield-per-unit basis. In the meantime the results from progeny evaluation plantations are the best data we have. The effect on the calculated PSQ is negligible.

COMMENT: Adjustments to the yield models for genetics and fertilization are speculative.

RESPONSE: Growth and yield responses to genetic selection and fertilization have been projected for a variety of management regimes using the Stand Projection System stand stimulator. The yield responses predicted by this are indeed speculative, but are conservatively based on the best available data.

The expected gains from the genetic selection program in western Oregon are currently estimated from conflar species studies and the results of early progen vtests from the Northwest Tree Improvement Cooperative. From other forest tree studies it has been found that the major changes in growth attributes can be estimated through changes in growth height-age curves. Young stand growth studies are in place throughout western Oregon to provide data on benefits of growth of selected progeny trees. The current young growth of these trees has then been modelled through growth simulators to estimate gain in volume. Tests comparing performance of improved and unimproved stock continue to be established to verify the BLM estimates.

Part of the predictive process is indicating what to do now in order to increase the likelihood of a desired future condition. In the instances of genetic selection and fertilizer, gain is both an increase in volume and the quality/ return from the resultant products. We have used average responses for acreage predicted to be treated and will monitor as well as continue research.

Genetic effects will become important in approximately 4 decades when currently treated stands will be a major part of PSQ when those areas planted with genetically improved stocked undergo thinning and limited regeneration harvest. Thus, the evidence should be available when the gains are being realized. Most simulators demonstrate low impact on current PSQ calculations and are appropriately conservative.

Fertilization and commercial thinning results are more immediate in their effects, as treatment and harvest in commercial thinning can occur within the same decade. Plote exist in western Oregon which indicate the expectation of average gains for treated stands is reasonable. Gains related to fertilization at time of precommercial thinning are more speculative. But again, as in the case of genetic selection, the effects will occur in the future.

COMMENT: Compare modeled, first-decade growth to historic, empiric growth.

RESPONSE: In the Trim-Plus harvest scheduling model, first decade growth is based on empiric volumes derived from measurements of permanent timber inventory plots on the district. This means for example, the average volume per acre of stands currently 50 years old is assumed to increase in then years to equal the average volume of stands currently 60 years old. Actual growth will be somewhat different from this estimate. In addition, this empiric growth rate is modified by an approach to normality function which begins to move the empiric volumes towards the predicted yields of future managed stands. The Stand Projection System was used to estimate growth of future stands.

COMMENT: Compare the stands scheduled for treatment in decade 1 from the TRIM analysis and those stands scheduled in the operational plan for the first decade.

RESPONSE: The 10-year scenario is not an operational plan but a modeling tool that selects the quantity of stands with similar age and previous management attributes as those modeled in the TRIM-PLUS harvest simulator.

COMMENT: It appears that ASQ is based on a linear model similar to FORPLAN.

RESPONSE: BLM used the Trim-Plus harvest scheduling model to estimate the sustainable harvest level for the PRMP. Thim-Plus is a timber yield model similar in many ways to FORPLAN timber yields. Major advantages ware that TRIM-Plus could be run on enhanced IBM/AT compatible microcomputers and many runs could be made inexpensively and directly available for district personnel access, thus making runs adapted to local conditions and age classes. TRIM-Plus is a binary search model with the capability of structuring the forest in unlimited units based upon site, species, stocking levels and management prescription. Different minimum harvest ages can be used on component units.

FORPLAN, in comparison, is a linear program optimization model requiring production coefficients for various resource values. It includes many more 'inputs' and addresses many 'outputs' in addition to timber yield.

COMMENT: Display a plot incorporating expected yield per acre at various rotation lengths multiplied by pond value per cubic foot. Include rotations up to 300 years.

RESPONSE: There is not enough data to form a realistic basis for such estimates. Speculation on long-term future pond values would be more misleading than useful.

COMMENT: Short-term harvest limitations due to emerging concerns over threatened and endangered species, watershed protection and the cumulative effects may limit ASQ more than sustained yield constraints do.

RESPONSE: The interaction between PSQ calculation and our 10-year timber management scenario has permitted us to address cumulative watershed effects as well as is practical in a checkerboard ownership pattern where private actions are speculative. Ecosystem management is intended to minimize the need to add unforeseen restrictions on timber harvest due to listing of additional threatened and endangered species.

COMMENT: Use a model such as FORPLAN or SARA, or expansion of your 50-11-40 rule analysis model, to determine the potential harvest acreage by subarea and type in the first few decades of the plan.

RESPONSE: The 10-year scenario identifies potential harvest acreage, which can be determined by subarea, for the first decade. Extending the scenario into the future would lose reliability due to the adaptive nature of the plan.

# **Timber - Inventories**

COMMENT: Update the starting timber inventory for ASQ calculation to October 1, 1993.

RESPONSE: For the PRMP/FEIS the inventory was updated to October 1, 1992. Only a slight increase will have occurred in the following year.

COMMENT: Use data from the Forestry Intensified Research project, Oregon Department of Forestry and other studies to continue validate the accuracy of forest inventory data and further evaluate lands currently determined to be unsuitable. If it can be determined that these lands can be managed for timber production, return them to the suitable base. Likewise, lands in the suitable base which are determined to be unsuitable through monitoring should be taken out of the base.

**RESPONSE:** Adaptive management as discussed in the Use of the Completed Plan section of Chapter 2 provides for such adjustments.

COMMENT: Revisions in inventory procedures to monitor growth and yield are likely to be necessary.

RESPONSE: Revisions in inventory procedures are expected and are currently underway. As part of the adaptive management philosophy, monitoring is a critical function in the forest management plan and this include growth and yield. As the objectives of management by land-use allocation become clearer, expected outcomes are projected, and multiple resource data needs are determined, the inventory systems will be delineated. Peer review is anticipated.

COMMENT: How does the starting inventory in the TRIM Plus model compare to the Bureau's most recent inventory?

RESPONSE: For the alternatives analyzed in the draft RMP/EIS, the average volumes by age class from the 1988 inventory were used directly as starting inventory volumes in the Trim-Plus model. If lower than three plots in a particular age class were measured, then volumes from a nontreated normal curve for BLM's northern

districts were substituted for actual plot volumes. For the PRMP, the 1988 inventory was updated to 1992 reflecting changes in the acre base, tree growth, and timber sold since 1988. For the Salem District, the inventory showed a net increase in cubic foot volume of 6.4 percent, while the number of BLM-administered acres increased by only one percent.

COMMENT: Volume equations and site index equations may be giving rise to biased estimates in the standing inventory.

RESPONSE: A bias in estimation in small diameter trees is recognized. BLM volume equations had high volume levels in small diameter trees. The net effect on PSQ calculations dependent on older age classes was not considered worth correcting in the DEIS stage. Since the PRMP PSQ is less dependent on older age classes, adjustments have been made. These newer equations compare favorably with other estimates.

# Timber - Demand, Supply and Market Effects

COMMENT: Analysis of the timber supply situation is more optimistic than warranted. Portray additional scenarios reflecting lower potential harvests by other parties, as well as uncertainty of implementing proposed BLM sale levels.

RESPONSE: The timber supply analysis has been updated (see chapter 4, Timber Resources, and appendix CC).

# **Energy and Mineral Resources**

COMMENT: Identify State-owned mineral rights and acknowledge non-impact of the plan on those and other existing valid rights.

**RESPONSE:** BLM is aware of only a few private owners of non-federal mineral rights on BLM-administered land. The acknowledgement has been added.

COMMENT: A mineral inventory should be conducted before withdrawals are recommended.

RESPONSE: The withdrawal proposals in the PRMP are based on the sensitivity of other resources to significant damage from mineral exploration and/or development activities as they would be anticipated to occur under present laws and regulations. The formal recommendation to the Secretary of the Interior for withdrawal will be accompanied by a mineral potential report to support a fully informed decision.

COMMENT: The appendix showing locatable mineral management requirements shows only standard requirements, under 43 CFR 3809. Additional restrictions in management areas such as ACECs, wild and scenic rivers, VFM class II areas and special status species habitat should also be shown.

RESPONSE: Such restrictions will be identified on mineral management restriction maps for the PRMP that will be developed after the record of decision. Lists of the types of restricted areas are located in chapter 2, Energy and Minerals. The effects of such restrictions are site specific and mining-plan specific, and cannot be known without a specific proposal to analyze.

COMMENT: Categorizing as low potential all areas where there is insufficient information to determine mineral potential is inappropriate.

RESPONSE: The relevant column header in the chapter 3 tables have been revised to reflect that the identified acres are a combination of low and unknown potential.

## Land Tenure

COMMENT: Coordinate with adjoining districts regarding land tenure decisions.

RESPONSE: This coordination has been accomplished.

COMMENT: State BLM's responsibility to accommodate the State's 5,202.29 acres of in lieu land entitlement with public domain land.

RESPONSE: This has been added to chapter 3, Lands.

COMMENT: The geographic information system (GIS) used by BLM should also be used to identify areas of non-federal land that, if acquired by the federal government, will facilitate ecosystem management.

RESPONSE: BLM's GIS for western Oregon includes only limited resource data on the intermingled lands. Acquiring the data necessary to explore such a question comprehensively would cost millions of dollars and take several years.

COMMENT: If land should be considered for disposal, the Confederated Tribes should have the opportunity to acquire it, either by transfer to the BIA or other means.

RESPONSE: Current legislative authority makes no provision for such a preference for Indian tribes. Most lands considered for disposal would only be exchanged for other lands, however.

COMMENT: Acknowledge existing or potential State ownership claims on navigable waterways.

RESPONSE: This has been added to chapter 3, Lands.

### Access

COMMENT: Identify how much access BLM provides to intermingled landowners through agreements and easements.

RESPONSE: Some 90 percent of intermingled forest land has rights of access for forest management purposes, under the terms of agreements and easements with BLM.

### Roads

COMMENT: Develop a comprehensive road management plan.

RESPONSE: Such plans will follow completion of the RMP. Transportation management objectives will be developed for all roads.

COMMENT: Coordinate with adjacent landowners and others in the development and implementation of a comprehensive road management program.

RESPONSE: We recognize the importance of coordination with intermingled landowners and other road users. Reciprocal right-of-way agreements require coordination with the intermingled landowners and road users that are parties to them.

COMMENT: Outline how BLM will cooperate with other landowners to build the permanent road system and accomplish road management objectives.

RESPONSE: Most of the permanent road system already exists. Cooperation with other landowners is an integral part of road development planning and the development of transportation management objectives.

COMMENT: Clarify how administrative road closure and obliterating them relate to specific issues and objectives. Address maintenance of roads administratively closed. Also address road maintenance priorities if funding is not adequate.
Western Oregon Resource Management Plans - Common Comment Synthesis/Partial Responses

RESPONSE: Road closures are driven by issues and objectives for protection of other resources, such as wildlife. If roads are to be retained for future management but closed to public use, most closures would be accomplished by gates, allowing access for maintenance. Transportation management objectives in transportation management plans will address maintenance priorities.

COMMENT: Explain how the proposed road density objective will be achieved in light of the contention that partial cut systems often require greater road densities than clear-cut systems.

RESPONSE: Some additional roads will be temporary and will be revegetated. Some existing local and collector roads will also be closed to help meet this objective and use of aerial logging systems will increase.

COMMENT: Develop a methodology for prioritizing those roads BLM is planning to build, as well as for prioritizing road closure and restoration.

RESPONSE: Transportation management objectives will address such prioritization.

### Fire

COMMENT: Consider letting naturally caused fires burn, while protecting life and property.

RESPONSE: Most naturally caused fires in the District occur during times when the fire risk (thus, danger to life and property) is high. Among the "property" at stake are timber and residences on intermingled private land. Therefore, it would rarely be appropriate to let a fire burn, except where prescribed fire and vegetation management objectives would be met.

### Socioeconomic Conditions

COMMENT: Assess the forest-wide economic efficiency of the new plans.

RESPONSE: Assessing such efficiency would require placing dollar values on a variety of ecosystem management benefits which we do not believe can be effectively quantified on an equal economic standard with commercial product (e.g., timber) benefits. Ecosystem considerations are more appropriately assessed on their qualitative merits.

COMMENT: Assess the economic efficiency of stand management prescriptions, including a comprehensive look at wood quality and value.

**RESPONSE:** Since stand management prescriptions are driven substantially by ecosystem management concerns, we do not consider economic efficiency analysis very relevant.

COMMENT: Update economic data to reflect more current information.

RESPONSE: Additional and more recent employment, personal income, and county revenue information has been added to the final EIS. Although the official baseline (1984-1988) remains unchanged, the added information allows absolute and relative comparison of the alternatives and their impacts.

COMMENT: The BLM should include an analysis of statewide impacts of the alternatives and proposed action in the final RMP/EIS.

RESPONSE: An additional layer of analysis has been added to analyze the western Oregon impacts of BLM alternatives and the PRMP.

COMMENT: BLM has not considered the impacts of Measure 5 in it's planning process.

RESPONSE: A discussion of Ballot Measure 5 and the constraints it places on local government revenues has

been added. This discussion recognizes that ballot Measure 5 is part of the economic environment in which BLM decisions are made.

COMMENT: BLM has failed to identify viable mitigation measures for the "very real and severe" social and economic impacts associated with the alternatives. Consider compensating adversely impacted citizens, maintaining/increasing county revenues, and provision of social and economic development programs that tap the spirit of rural people, to mitigate social and economic impacts.

RESPONSE: The BLM has neither the authority nor ability to provide compensation, social services, or other economic assistance to impacted counties, businesses, or individuals. Such proposals are beyond the scope of the RMP, but they are addressed in Chapter 7 of the FEMAT report, and the Economic and Community Assistance Program discussion in Chapter 4 of the SEIS.

COMMENT: Since 1953 the O&C counties have relinquished one third of their statutory entitlement. These foregone county monies were "invested" by the counties with the expectation they would receive a "return" on their investment through increased harvest levels in future decades. Nearly one billion of otherwise county revenue has been so appropriated since 1953.

RESPONSE: The 25 percent plowback by the O&C counties between 1953 and 1981 was used to increase management intensity of the O&C lands. Although many expenditures, such as road building and reforestation, were made with additional future use and harvest in mind, these activities also enabled immediate access to and harvest of timber otherwise inaccessible. This resulted in increasing levels of sustainable harvest being identified throughout this period, as well as increasing timber receipt collections.

COMMENT: School programs will be cut as revenue declines from diminished O&C receipts.

RESPONSE: Unlike county revenues from the national forests which must be used to fund schools (25%) and roads (75%) O&C payments enter directly into the county general fund. Distribution of these general fund monies is discretionary. All counties in western Oregon have at some time transferred monies from the general fund to the local school districts or Educational Service District (ESD). Most counties continue to make these transfers annually. It is through these transfers that changing O&C payments to the counties could impact school funding. An analysis conducted in 1988 concluded that O&C funds appear to contribute between 0 and 2.75 percent of school funds. (Hackworth,Kevin. 1988. "Importance of Timber-Related Revenues to Local Governments in Oregon and the Effects of Forests in Oregon on Property Tax Rates". Masters thesis submitted to Oregon State University).

Distribution of county general fund monies to the schools could change dramatically from past distribution patterns due to reductions in national forest payments to counties and the implementation of Ballot Measure 5.

COMMENT: BLM should "support"/"endorse" federal and state loans and grants to encourage local businesses to invest in the equipment for milling smaller logs.

RESPONSE: Discussion of potential legislative agendas is beyond the scope of the RMP/EIS.

COMMENT: Re-evaluate the impacts to total employment of harvest reductions.

RESPONSE: Different models representing different employment and income multipliers were used to assess BLM and cumulative impacts. Although this appears inconsistent, we felt the different type of analysis conducted required the use of different models, thus multipliers. The analysis of BLM actions was conducted as a marginal analysis, examining only the actions of BLM. For these analyses BLMPACT was used. The western Oregon cumulative effects analysis examined BLM actions together with assumed management actions of the USFS, State and private forests. For this analysis the subregion multipliers cited in the SEIS were used. Unlike the multipliers used in the DRMP/EIS these multipliers only examine impacts within the timber industry, including self-employment. COMMENT: An alternative which emphasized recreation opportunities could have served as a benchmark from which to compare jobs gained from the various alternatives presented in the plans.

RESPONSE: Using information available in Hospodarsky (1989) the BLM projected future recreation demands (year 2000) expected on BLM-administered lands. This identified demand was assumed to represent the maximum recreation potential of these lands. No alternative was developed specifically to address meeting the maximum recreation potential of BLM-administered lands. However, based on the expected provision of recreation opportunities under each alternative, we determined what level of potential demand could be met. See Table 4-19. Designing and analyzing specific plan alternatives merely to provide benchmarks for comparative analysis would make the RMP/EIS unwieldy.

COMMENT: Provide the analytical ground work for an effective policy response to the fundamental social and economic changes which would follow the implementation of the preferred alternative.

RESPONSE: This is outside the reach of BLM's statutory mission and beyond the scope of the RMP/EIS. Chapter 4 of the SEIS has addressed this however in its Economic and Community Assistance Program discussion.

COMMENT: Promote restorative work for ex-loggers.

RESPONSE: Labor Intensive management activities, including restorative work, that have been incorporated into the PRMP, will provide additional employment opportunities in the local economy. The level of employment identified cannot fully replace employment losses caused by reduced harvest levels. In addition, BLM has no authority to assure that those employed in such work are ex-loggers or former workers of a specific industry.

COMMENT: BLM has not examined the national and international impacts of reduced lumber and wood products production in the Pacific Northwest. Identified areas of impact include:

- 1. Economic and environmental impacts of using substitute building materials,
- 2. Housing cost impacts.
- 3. Changing import/export flows (especially from developing countries).
- 4. Economic and environmental impacts of harvesting timber elsewhere in the world.

RESPONSE: A generalized discussion of the national and international impacts of using substitute building materials and fiber sources has been added using information from recent publications. These studies examine the range of resource substitution impacts individually. The extent and rate at which these effects will combine in response to reduce Pacific Northwest timber harvests is unknown.

#### COMMENT: Add export base analysis.

RESPONSE: Attempting to do an export base analysis for western Oregon communities would entail making substantial assumptions about the "export" content of incomes in many sectors of the economy of each community. The results would not contribute substantial new knowledge about which communities are sensitive to "export" markets. Sensitivity of communities to changes in "exports" has been identified through numerous sources including: (1) Oregon Legislature, Joint Legislative Committee on Land Use, Dependent Communities Desktop Analysis (1990); and Oregon Economic Development Department, Oregon's Coordinated Timber Response Program (Updated 1993).

COMMENT: BLM failed to identify the importance of changes in the natural environment and amenity values (scenic beauty, clean water and air, recreation resources) in attracting businesses and retirees to western Oregon.

RESPONSE: Those changes would be long term, not within the 10-year time frame of our socioeconomic analysis. Additional discussion has been added, however, to Chapter 4, Socioeconomic Conditions. Quantitative analysis and comparisons were not made for these amenity values.

COMMENT: An economic analysis of the benefits and costs of a "Holistic Natural Watershed Management Plan" alternative, compared to the alternatives, should be made. Include greatly increased commercial and sport fishery benefits.

RESPONSE: The SEIS addressed such an alternative in its Alternative 1. The comparative economic benefits of such an alternative would occur many decades in the future. Full recovery of fish habitat, for example, is not expected for 200 years under any alternative. The cost of heavily protective alternatives, however, in lost revenues, employment and local income, would be immediate. Economic analysis, with traditional discount rates for future benefits, would attach little current value to any such long-term benefits.

COMMENT: Identify other forest industries which are becoming significant contributors to the local economy, such as special forest products. Identify industry potential.

RESPONSE: The types and value of special forest products sold from BLM-administered lands have been identified. See chapter 3. The economic impacts of the these sales have not been examined due to lack of information on which to base estimates or projections of employment and personal income.

COMMENT: Projected high stumpage prices will increase substantially more.

RESPONSE: Less federal timber will be available in the future compared to the 1984-1988 baseline period, thus higher prices can reasonably be expected (see appendix CC).

COMMENT: Use appropriate models to measure social impacts and systematically analyze them.

RESPONSE: No models were used to measure or analyze social impacts in the PRMP/FEIS. However, several recent publications, not available at the time of the Draft, were used to enhance the discussion to social impacts. These publications generally relied on surveys, focus groups, and interviews to assess impacts. No models were developed or used.

COMMENT: Add demographic and occupational profiles of communities.

RESPONSE: This type of data is not readily available for all communities potentially impacted by BLM management alternatives. A profile of "at risk" communities was developed by the FEMAT and is discussed. This profile contains demographic, occupational, and other characteristics.

COMMENT: Add an occupational profile of displaced workers.

RESPONSE: This information was provided by the Oregon Employment Division. Because of the wealth of information and length of the report only a few points could be highlighted in our PRMP/FEIS. A full reference was provided for those wishing to request the information from the Oregon Employment Division.

COMMENT: Describe the linkage and dependency (social, economic, spiritual) of local and regional communities, groups, industries, etc. on ecosystems within each land allocation.

RESPONSE: Social and economic analyses were conducted for each alternative, representing a complete set of allocations. Individual allocations were not examined. Spiritual dependency and linkages to BLM lands are, with the exception of traditional tribal use areas, individual in nature. The RMP/EIS was unable to comprehensively address these linkages to ecosystems due to the lack of information.

COMMENT: Disclose the economic impacts of ground-disturbing activities on the mushroom harvesting industry.

RESPONSE: Although qualitative information regarding the ecological impacts of ground disturbing activities exists for most plant species (see revised Chapter 4, Vegetation), quantitative information for many is not avai able. The economic impacts of ground disturbing activities for any given mushroom species could only be Western Oregon Resource Management Plans - Common Comment Synthesis/Partial Responses

defined on a site and time-specific basis. Therefore, it is not possible to identify any general economic impacts at this time.

# **Rural Interface Areas**

COMMENT: BLM's strategy of buffering rural interface areas adjacent to federal lands will do little to alleviate new inappropriate developments in rural interface areas.

RESPONSE: The PRMP strategy is intended only to address the relationship to existing and planned development. Development of private lands will be guided by local comprehensive plans in conformity with statewide planning goal 4. The BLM has no direct authority to limit or constrain development on private lands.

COMMENT: Increase BLM's participation in Oregon's statewide land use planning program.

RESPONSE: When the RMP is approved for implementation we expect to participate in statewide and local planning whenever proposed adjacent land uses are perceived to be inconsistent with RMP goals and objectives.

COMMENT: The BLM should have clear policy guidance for addressing rural interface Issues.

RESPONSE: The RMP will define the objectives against which we will measure the significance of future rural interface land use issues.

COMMENT: In cooperation with the State, establish and apply a revised definition of rural interface areas which takes into account existing uses; current federal, state, and local plans; and other land use factors.

RESPONSE: After the RMPs are complete, such a comprehensive effort can be considered. Such an effort would be dependent on the availability of local, State and BLM staffing to participate, consistent with management prioritization of workloads.

# **Consistency with Other Agency Plans and Programs**

COMMENT: Document how the selected alternative complies with the statutory authorities and regulations of the Oregon Coastal Management Program.

RESPONSE: This documentation is provided in appendix HH.

COMMENT: Acknowledge that preservation of BLM wetlands contributes to attainment of the Oregon Benchmark goals on wetlands.

RESPONSE: A statement has been added.

COMMENT: The RMP/EIS should better outline how the alternatives compare to the following: Recovery Plan for the Northern Spotted Owl, the Forest Service EIS on Management for the Northern Spotted Owl, the Endangered Species Committee Record of Decision, Alternatives for Management of Late-Successional Forests of the Pacific Northwest, and A Conservation Strategy for the Northern Spotted Owl.

RESPONSE: The first of these is only a final draft agency document, but a discussion has been added to the Consistency with Other Agency Plans and Programs section of Chapter 4. The second has been rendered moot by court ruling and superseded by the SEIS and its record of decision. The third merely required that BLM consult with the Fish and Wildlife Service before proceeding with certain timber sales, and such consultation is embedded in the process for completing and implementing this RMP. The last two are considered ad-hoc reports. The first of these two makes no single set of recommendations. The last makes a single set of recommendations which are specifically followed in alternative D only.

COMMENT: The Draft RMP fails to comply with the USFWS Spotted Owl Recovery Plan.

RESPONSE: The Fish and Wildlife Service's Biological Opinion on the SEIS says that the SEIS plan, which is incorporated into the Proposed RMP, provides protection for more known spotted owl sites and currently suitable habitat than does the Final Draft Recovery Plan (FDRP), and that the number of acres subject to matrix management is less than under the FDRP. This we believe it meets the objectives of the FDRP.

# **Requirement for Further Environmental Analysis**

COMMENT: The RMP/EIS should identify criteria for determining what sort of NEPA documentation will be required for future projects. In addition, it should provide guidance for the scope of analyses expected in these tiered documents, to clarify what analyses and issues are considered fully addressed in the RMP/EIS and what analyses and issues should be further considered based on site-specific resources and conditions.

RESPONSE: The BLM National Environmental Policy Act Handbook provides some guidance on this topic. Supplementation of that guidance, with specific reference to the western Oregon RMPs seems permature until we gain experience relating to the ecosystem management concept and its many new management approaches.

COMMENT: The "Further Analysis" section should clearly disclose the cumulative watershed effects analysis procedure to be used for site specific projects during RMP implementation. At present it appears undirected, fails to consider fish and fish habitat and is simplistic. To be credible, the process must be peer reviewed and deemed acceptable.

RESPONSE: The discussion has been strengthened to address the relationship to the watershed analysis process and how that process will enhance cumulative impact analysis. The watershed analysis process is still evolving as the BLM and the Forest Service conduct pilot analyses.

COMMENT: Describe how cumulative watershed effects analysis will be coordinated among adjacent landowners.

RESPONSE: Information available from private landowners will be gathered and considered. Most private management plans, however, are subject to change due to changing economic conditions, so we will make some assumptions about probable private management.

# Use of the Completed Plan

COMMENT: Detail how BLM intends to integrate management, monitoring and research to continually apply adaptive management and improve the scientific basis for ecosystem management.

**RESPONSE:** The discussion in chapter 2 has been expanded. Further elaboration is contained in the SEIS ROD and its Monitoring and Evaluation Plan.

COMMENT: Clarify how timber sale volumes and associated programs will be reduced if annual funding is not sufficient to support monitoring.

RESPONSE: The discussion in chapter 2 has been expanded.

COMMENT: Do not plan any timber sales until there is an approved RMP and all court injunctions are lifted.

RESPONSE: Since planning of individual timber sales usually takes a year or more, it would be irresponsible for BLM to defer all such planning until final RMP approval. Tentative site-specific plans based on unapproved versions of the RMP can be adjusted as needed to conform to the RMP as approved.

COMMENT: Individual forest project plans should evaluate protection needs for intermittent order 1 and 2 streams, and apply protection as needed to protect channel integrity and identified beneficial uses. Project

Western Oregon Resource Management Plans - Common Comment Synthesis/Partial Responses

planning should also evaluate potential cumulative effects on beneficial uses outside the project area sub-basin.

**RESPONSE:** The Aquatic Conservation Strategy which is part of the record of decision for the SEIS addresses this concern and is incorporated in our PRMP. Watershed analysis will address it at the sub-basin level.

COMMENT: Is a threshold level plus/minus 10 percent appropriate for changes in all resource outputs or impacts to resources.

RESPONSE: Explicit thresholds have been dropped, pending completion of the SEIS monitoring plan.

# Monitoring

COMMENT: Detailed monitoring plans should be developed within one year after final plan completion. They should contain procedures which have undergone appropriate peer review. They should also identify thresholds which trigger changes in practices or procedures or result in plan changes.

RESPONSE: Further detail in the monitoring plan awaits refinement of the Monitoring and Evaluation Plan for the SEIS.

COMMENT: The monitoring plan should include written standards for sampling design, monitoring parameters, analytical techniques, statistical methods, reporting units, location of sampling, indicator species, budget, and procedures for using data or results in plan implementation; and availability of results to interested and affected groups. It should also have a clear feedback mechanism which enables the use of monitoring results to adjust standards and guidelines, BMPs, standard operating procedures, monitoring intensity, and project implementation.

**RESPONSE:** We believe some of these details belong in technical handbooks. Others will be developed after the SEIS Monitoring and Evaluation Plan is refined or within the SEIS Monitoring and Evaluation Plan.

COMMENT: Why aren't monitoring standards presented for each land allocation (old growth emphasis areas, connectivity ares, general forest management areas)?

RESPONSE: This kind of stratification is included in the SEIS Monitoring and Evaluation Plan for the allocations made in the SEIS Record of Decision. The proposed RMP Monitoring Plan parallels the SEIS Monitoring and Evaluation Plan.

COMMENT: Why haven't monitoring questions been tied to measurable standards?

RESPONSE: For most topics, this tie awaits completion of the SEIS Monitoring and Evaluation Plan.

COMMENT: Is there a tie between implementation and effectiveness which is necessary for meeting the expected future condition (ecosystem management)? Does BLM have a long-range monitoring framework which will direct the agency over the next 100 years in order to meet these expected future conditions?

**RESPONSE:** The Monitoring and Evaluation Plan for the SEIS is expected to provide both the tie and the framework.

COMMENT: The extent of cumulative watershed effects analysis validation should be described.

RESPONSE: This description awaits refinement of the SEIS Monitoring and Evaluation Plan.

COMMENT: Consider on-site inspection to monitor BMP implementation.

RESPONSE: This will be part of contract administration.

COMMENT: Consider RMA monitoring to assess long-term organic debris contribution to stream systems.

RESPONSE: The SEIS Monitoring and Evaluation Plan calls for this in Key Watersheds. It is also incorporated in our monitoring plan.

COMMENT: Consider a research/monitoring program to determine the effects of spatial/temporal segregation of timber harvests on sediment and hydrology.

RESPONSE: Consideration of this awaits refinement of the SEIS Monitoring and Evaluation Plan.

COMMENT: To obtain more specific data from evaluation and monitoring, subdivide analytical watersheds greater than 10,000 acres into smaller units.

RESPONSE: Much of the aquatic systems monitoring will focus on watersheds smaller than 10,000 acres.

COMMENT: Monitor activities in each watershed to determine cumulative effects on water, soil, fish and other resources.

RESPONSE: The SEIS Monitoring and Evaluation Plan will be based on a determination of the level of such monitoring that would be cost effective.

COMMENT: Mining activities in or adjacent to streams should be monitored to determine if they are adversely affecting riparian area vegetation.

RESPONSE: Such effectiveness monitoring may be included in the SEIS Monitoring and Evaluation Plan. Activities in approved plans of operations would be monitored for conformity to RMP direction (implementation monitoring).

COMMENT: Give more attention to monitoring the population and geographic distribution of special status plant species.

RESPONSE: Conservation of the special status plant species will include preparation of management plans considering the geographic distribution of these species and the role of BLM populations in the survival of the species. As needed to conserve the species, these plans will direct: determination of species requirements where BLM can act to enhance survival or recovery; implementation of BLM actions in recovering or enhancing the species; and assessment of the effectiveness of those actions. Sampling of population trends will be a means of assessing what needs to be done as well as effectiveness and appropriateness of these actions in recovery of the species.

COMMENT: Use recent advances in technology to monitor special status plants, especially listed plants.

RESPONSE: Monitoring guidelines in the RMP must be general in nature. There is too much variation between populations and site-specific management objectives to provide more detail. More detail will be developed during activity planning following the completion of the RMP and refinement of the SEIS Monitoring and Evaluation Plan. The most cost-effective technology will be used.

COMMENT: Monitor to assess impacts on Oregon sensitive species.

RESPONSE: The SEIS monitoring plan will define the extent of special status species monitoring for those species which occur in special habitats. Species in the FEMAT matrix or those not in special habitats will be monitored if monitoring is prescribed as an environmental assessment for a proposed action.

COMMENT: Monitor to ensure target levels of dead-and-downed wood are attained.

RESPONSE: The SEIS Monitoring and Evaluation Plan addresses this.

Western Oregon Resource Management Plans - Common Comment Synthesis/Partial Responses

COMMENT: RMA monitoring should focus partly on amphibians or other key dependent species.

RESPONSE: The extent of such validation monitoring in Riparian Reserves will be defined by the SEIS Monitoring and Evaluation Plan.

COMMENT: Monitoring fish and fish habitat in one stream per resource area seems insufficient.

RESPONSE: All key watersheds will be monitored.

COMMENT: Previously logged areas should be selected for study and monitoring of experimental efforts to restore old-growth conditions.

RESPONSE: Such studies are ongoing in existing monitoring and research programs by other agencies. Some areas have been identified where past logging on lands BLM administers appears to be leading to early development of old-growth conditions, and these are being monitored.

COMMENT: A monitoring program should be established to identify noxious weeds before they become a problem.

RESPONSE: As part of the Cooperative Agreement between the BLM and the Oregon Department of Agriculture (ODA), ODA conducts noxlous weed field surveys; collects and redistributes biological control agents; and monitors results and efficiency of bio-control sites. Noxious weed infestations have already been identified. We continue to locate problem areas during proposed project planning when sites are surveyed.

COMMENT: Incorporate the rural interface issue into BLM's agreement for monitoring implementation of BLM plans.

RESPONSE: Rural interface area monitoring is included in the PRMP Monitoring Plan.

# Salem District Comments/Responses

# **Table of Contents**

General	JJ-67
Soils	JJ-69
Water	JJ-69
Biological Diversity	JJ-70
Vegetation	JJ-72
Riparian Zones	JJ-73
Wildlife	JJ-74
Fish	JJ-76
Special Status Species	JJ-78
Spotted Owl	JJ-79
Lands	JJ-82
Special Areas	JJ-82
Cultural Resources	JJ-85
Visual Resources	JJ-85
Recreation	JJ-85
Wild and Scenic Rivers	JJ-88
Timber	JJ-89
Old-Growth Forest	JJ-93
Socioeconomic	JJ-93
Roads	JJ-94
Rural Interface	JJ-94
Fire	JJ-95

### General

COMMENT: With much of the BLM land likely to remain in areas of mixed ownership, it is important that the differing objectives of private landowners be respected. Some of the suggestions for "cooperative" management fail to recognize marketing and antitrust concerns, which are very real for private landowners.

RESPONSE: The emphasis in these suggestions is on the word "cooperative." BLM would contact private landowners and ask for their cooperation in meeting objectives such as those for ecosystem management. BLM has no authority and no intention of forcing private landowners to cooperate in any resource management program.

COMMENT: You have overlooked one alternative plan - the no logging, no mining, no grazing plan.

RESPONSE: This is a radical departure from statutory mandates and sustained yield management principles and clearly outside the range of reasonable alternatives. The National Environmental Policy Act does not require consideration of unreasonable alternatives. The existing range of alternatives is balanced and reasonable.

COMMENT: None of the seven alternatives have included a selective cut format with which to make a comparison on how this would affect the competing interests on forested lands.

RESPONSE: Alternative C proposes partial cutting on most BLM-administered land (see chapter 2-26 in the draft resource management plan).

COMMENT: The two sides of the map showing the preferred alternative for the district and for all west side districts conflict, and nowhere in the document is it clear how that conflict would be resolved. The map of the west side shows large blocks in Connectivity Areas in the Mt. Hood corridor. The map of the district shows these same areas with a whole bunch of designations overlaid on top of each other, but it is not clear if any of them are in Connectivity Areas. How can the viewer sort out these conflicts?

RESPONSE: See map 2-2a, District Planning Strategy and map 2-2b, District Planning Strategy (Reserves).

COMMENT: The management of O&C lands and Public Domain lands should be delineated separately, with each land category managed to recognize the differing statutory mandates.

RESPONSE: The land use planning process considered all BLM-administered lands as a single entity without regard to underlying land status. This was a multiple-use process which did not rule out consideration of any resource or value. This process is reflected in the ecosystem management aspects of the preferred alternative and the proposed resource management plan. Also alternative B does propose some differences in O&C and Public Domain management.

COMMENT: The approach to soliciting public input on the draft resource management plan was very poor. No article about the Corvallis meeting was published in the Gazette Times and no announcements were posted publicly in Corvallis. Most of the people on your mailing list (apparently the only way people were notified) are members of the timber industry.

RESPONSE: Sixteen meetings were held throughout the district to explain the draft resource management plan and to answer questions. Meeting notices were sent to local newspapers, including the Gazette Times. Apparently, some newspaper staffs chose not to publish these notices.

Some 670 draft resource management plans and summaries with information about the meetings were mailed to people on the district resource management plan mailing list. A Planning Update listing the meetings was also sent to those on the mailing list. This list was developed over a six-year period. Anyone who expressed an interest in BLM planning was placed on the mailing list. The list is by no means dominated by timber interests.

COMMENT: The BLM has assumed in part that the resource management plan is the result of changing public values. Supposedly, the shift in values is toward less timber harvesting. This assumption should not be used as the basis for such a drastic change in management philosophy. Many public opinion polls indicate that retention of jobs is favored over endangered species protection.

RESPONSE: The shift in public values is toward ecosystem management on public lands. Many sources, including professional resource management iliterature, indicate the national scope of this stift. In response, BLM has developed a plan which proposes maintenance of the essential components of western Oregon forested ecosystems, including threatened and endangered species habitat. Traditional timber harvesting (i.e., clearcutting) and other management activities will be modified under this plan to achieve ecosystem management objectives.

COMMENT: In several instances, both wording and numbers fail to indicate the connection between the preferred alternative and other alternatives. For example, alternatives A through E "protect" special status species while the preferred alternative "manages" them. What is the difference in management if one term is used versus the other?

RESPONSE: Alternatives A through E and the proposed resource management plan cover a wide range of options for management. These include conserve, protect, latting nature take its course, and manage (actively working to ensure the survival of the special status species).

### Soils

COMMENT: We also note similarly phrased subcategories in both the Fragile Nonsuitable and Fragile suitable. Restricted categories, e.g., slope gradient, soil moisture, mass wasting potential, etc. We are curious how you separated these similar concerns into these two different categories.

**RESPONSE:** See appendix G for description and concerns for the varying categories of Fragile Timber Production Capability Classification codes.

COMMENT: Also regarding harvesting fragile land, given that no mitigation measures exist to ensure these lands are not damaged during harvest (or they would not be classified as fragile restricted), some percentage of these lands, once harvested, will experience a loss of both biological and timber production potential. We advise taking all fragile restricted lands out of the base and allowing a case-by-case exception for very small patches which occur in General Forest areas proposed for harvest.

RESPONSE: Fragile Restricted Timber Production Capability Classification categories are defined and mapped as those lands that are fully capable of being managed for timber management without adverse effects to site productivity when best management practices are used (see appendix G for a list of best management practices).

COMMENT: Site-specific analysis as per the Timber Production Capability Classification was not utilized to determine suitable base in allocations for the Mt. Hood Corridor.

Regeneration of harvested stands has not been successful on some sites. Slopes, soils, and aspects of some parcels are not suitable yet are allocated either visual resource management class II or Connectivity Area and still remain in the timber base.

RESPONSE: All BLM-administered lands with the exception of the Table Rock Wilderness area were classified through the mapping of the Timber Production Capability Classification (TPCC) on the Salem District. This includes all of the BLM lands in the Mount Hood Corridor. The TPCC identified all areas that were incapable of intensive timber management and those areas which would need more than minimal attention for successful harvesting and reforestation. Allocation as visual resource management class II or Connectivity Areas are management allocations and have no relationship with land capability identified through the TPCC.

COMMENT: Including fragile nonsuitable woodland areas in timber harvest unit boundaries would NOT be an "unavoldable" effection soils (p. 4-7). Rather, it would be an effect that the BLM chose not to avoid. All fragile soil areas should be avoided, even if they must be just left as untouched islands inside harvest unit boundaries.

RESPONSE: The term "unavoidable" has been dropped.

### Water

COMMENT: A definitive designation of what a perennial stream is and how exactly these streams will be treated should be included in the resource management plan.

RESPONSE: See the Glossary for description of a perennial stream. See best management practices in appendix G and the description of the proposed resource management plan for proposed management in riparian reserves.

COMMENT: The resource management plan is fixated on woody debris and ignores the effect that intact riparian and upland areas have on stabilizing stream flow and reducing siltation.

Woody debris from the called for 94-foot width riparian management area will have minimal benefits to fish if the riverbed is silted-in and endures extreme flow fluctuations.

RESPONSE: Riparian reserves are designated under the proposed resource management plan on all streams and wetlands. This, combined with the large number of leave trees proposed to be maintained in the upland

areas would provide protection to maintain water quality. See the description of the proposed resource management plan in chapter 2 and best management practices in appendix G for more details.

COMMENT: It is disturbing to note that water quality conditions are predicted to decline in eighteen of Salem's analytical watersheds during the next decade. Why is this so? This contention inappropriately ignores the water quality protection mechanisms in the Oregon Forest Practices Act as well as the BLM's own best management practices.

RESPONSE: The overall watershed condition includes and is driven by activities and assumptions of management on private lands. This to a high degree, has resulted in reduced projected watershed conditions.

COMMENT: The hyporheic zone, absolutely vital to riverine ecological functioning is not mentioned or planned for in the resource management plan.

RESPONSE: The hyporheic zone is addressed in chapters 3 and 4 of the proposed resource management plan/ final environmental impact statement.

### **Biological Diversity**

COMMENT: The Mr. Hood Corridor is currently very fragmented. The oldest stands are located on BLM parcels. There is no empirical evidence which proves that the BLM plan for the Mt. Hood Corridor can improve or accelerate old-growth habitat.

RESPONSE: BLM-administered lands in the Mt, Hood Corridor will be managed as visual resource management class I which prohibits scheduled timber harvest or as connectivity/d/wersity blocks managed on a 150-year rotation. Twenty-five to thirty percent of the latter areas would be maintained in late-successional condition.

COMMENT: The resource management plan also has determined it will only measure biodiversity in relation to mature forests and forests that meet old-growth conditions. These vegetative types, or successional stages are not the only lands capable of providing diverse habitat. Existing data clearly shows that younger-age classes are capable of supplying a variety of habitat conditions. By only selecting the old-age classes to measure diversity, the resource management plan has biased its own management. Without discussing the younger-age classes found on BLM ownership the Salem District is selling its management short of measured diversity.

RESPONSE: BLM recognizes that younger-seral stages provide a variety of habitat conditions. However, these stages currently dominate BLM-administered lands in the Salem District and adjacent private lands. Old growth is rare in the Salem District (less than ten percent of the land base) and on adjacent private lands.

COMMENT: We see two possible negative long-term effects of BLM's biodiversity proposal. First, is that BLM's proposal will increase diversity above that which existed in natural systems. Second, the proposal is setting the Bureau up for major unplanned and uncontrollable natural catastrophic events. Monitoring is essential as you move through time with your proposal, as it will identify these and other possible negative effects.

RESPONSE: The current age structure in the Salem District is out of balance with younger-age classes dominating the current age structure. BLM's proposal aims to increase the amount of older-forest stages to correct this current inbalance.

The point that the BLM proposal is setting up major unplanned and uncontrollable natural catastrophic events is unsubstantiated. Although it is true that slash removal by controlled burns will not be as major an activity as in the past, it is difficult to predict future fire-return intervals. Modern fire control methods and an extensive road network will ad in the prevention of wildfires.

BLM agrees that monitoring is essential. The draft monitoring plan has been revised in the proposed resource management plan.

#### Salem District Comments / Responses

COMMENT: Ratings provided by the resource management plan for each alternative have no real bearing to biodiversity. Surely, BLM understands the high degree of variance in younger stands, and should consequently display this rating. Without this approach, the Salem District ignores positive elements of diversity found in nonmature and old-growth forests.

RESPONSE: BLM recognized the importance of early serial stages to biological diversity by rating the expected changes in the amount of this habitat under the various alternatives. Although younger satages provide a variety of habitat conditions, these stages are currently the dominant age classes in the Salem District.

COMMENT: Chapter 3 does not give sufficiently detailed information about the impact of the plan upon diversities, with the exception of the pacific yew, the spotted owl and the marbled murrelet. It is simply not clear whether these diversities will still exist if the proposed plan is implemented; in fact, it appears that they will not.

RESPONSE: Chapter 4 assesses the impacts of alternatives on components of biological diversity and other resources. BLM has expanded this section in the proposed resource management plan compared to the draft. Implementation of the proposed resource management plan, which liers to management direction established in the record of decision for the SEIS, is expected to enhance biological diversity on BLM-administered lands over time. Protection of threatened and endangered species such as the spotted owl and marbled murrelet is required under the Endangered Species Act.

COMMENT: The Salem District must clearly understand its role in providing blodiversity at all measurable levels. Clearly, 329,000 acres of forest land is a substantial acreage. However, the physical layout of this acreage and intermingled ownership may prevent the BLM from developing landscape level objectives beyond 640 acres in many cases.

RESPONSE: BLM agrees that landscape level objectives, in some cases, will have to be applied to small blocks (e.g., less than or equal to 640 acres) because of ownership patterns. However, some larger blocks are also available to meet these objectives.

COMMENT: The resource management plan seems to insinuate that mature and old-growth forests are the only source of "biodiversity" on the landscape.

The greatest diversity of plant and animal species, and the greatest population densities of plant and animal species occurs in the younger-seral stage forests under 120 years of age.

RESPONSE: Several components of biological diversity were considered in the proposed resource management plan in addition to mature and old-growth forest.

Plant and animal species diversity is comparable in younger and older stages. However, much of the plant diversity in younger seral stages is due to prolific, weedy invader species with simple life cycles and short life spans. These pioneer species can successfully exploit disturbed eccesystems. Species associated with older forests have more complicated life cycles, are not very successful in exploiting disturbed ecceystems, and thus are more restricted to their natural habitat.

Animal species that prefer early successional habitats are generalists. They have evolved characteristics which enable them to survive in these environments. These characteristics include: rapid population growth, wide dispersal capacity, and relative flexibility in habitat requirements. Old-growth related species, adapted to a more stable habitat, tend to be specialists that often have slow population growth rates and poor dispersal capabilities.

COMMENT: We support the inclusion of Rock Creek in the Prairie Mt. OGEA-1, but question the exclusion of the west half of the Tobe Creek drainage.

RESPONSE: The proposed resource management plan incorporates the management direction in the record of decision for the SEIS. As a result, Late-Successional Reserves have been added to the proposed resource management plan while old growth emphasis areas have been dropped. In the proposed resource management plan, Rock Creek and the Tobe Creek drainage (including the west half) are included in the Late-Successional Reserve system.

COMMENT: The old growth emphasis areas will be deferred for 80 years which is a good start, but they are subject to density management during that time. I feel that at least 1/2 of these areas should be in no cut, no management classification permanently. The part open to logging should be done on a minimum of a 300-year replacement cycle using gentle, uneven-age management methods.

I also suggest that the connectivity areas be managed the same as I recommended for the old growth emphasis areas.

RESPONSE: The proposed resource management plan incorporates the management direction in the record of decision for the SEIS. As a result, Late-Successional Reserves have replaced old growth emphasis areas in the proposed resource management plan. Standards and guidelines for Late-Successional Reserves allow no harvest in stands over 80 years old (110 years in northern coast range adaptive management areas). Thinning may occur in stands up to 80 years old they must be beneficial to the creation and maintenance of latesuccessional forest conditions.

The connectivity areas will be managed differently from the Late-Successional Reserves based on varying management objectives. Management emphasis for Connectivity/Diversity Blocks will be to maintain ecotypic richness and diversity in the forest matrix as well as to contribute to the movement, dispersal, and connectivity of plant and animal species.

# Vegetation

COMMENT: I have a concern about the proposed use of herbicides on "competing vegetation." What plants are considered "competing vegetation?" Are, for example, blueberries and rhododendrons considered "competing vegetation?"

RESPONSE: Competing vegetation is considered any plant species which competes with other species for essential growth requirements (e.g., nutrients, space, etc.). In some cases, bluebarries and rhododendrons may be considered competing vegetation, but the usual major competitors include such species as salal, salmonberry, vine maple, and big-lear maple.

COMMENT: Fungi concentrate chemicals in their metabolic processes, and areas where collection of mushrooms occurs should not be sprayed at all with the long-lasting herbicides listed in the plan. Does the district know where these are?

RESPONSE: Most commercial fungi (e.g., chantarelles) are collected in forested stands where herbicides would not normally be applied.

COMMENT: Nowhere does the BLM plan address the threat to wet meadows from forest accretion brought about by European management systems.

RESPONSE: BLM has not collected any data on wetland loss due to forest accretion, but is unaware of any law that mandates protection of wetlands from successional processes whether caused by European management systems or not.

COMMENT: We note that only about 36 acres of oak woodland occur on the Salem District. These acres should be preserved and protected.

RESPONSE: Oak woodland would not be normally harvested since Douglas-fir is the primary commercial species in the Salem District.

COMMENT: Commercially valuable mushrooms are principally associated with mature and ancient forest habitats. What consideration was given to protecting the habitat of so valuable a crop?

RESPONSE: Under the proposed resource management plan, a network of reserves has been established to maintain and develop late successional and old-growth forests and associated species such as mushrooms. It is important to note, however, that some of the economically important species, such as the chantarelle, grow well in younger forests.

# **Riparian Zones**

COMMENT: Much more information on biological and in-stream variables for riparian zones is needed. Timber management data alone is not enough to assess riparian habitat condition.

RESPONSE: The BLM has conducted extensive habitat inventories throughout western Oregon. Analysis of the information obtained indicates a general relationship between the age and composition of the riparian community and the instream woody structure that creates fish habitat. The relationship is far from absolute, as BLM is aware, but the vegetation is a good general indicator of the overall health of a system. In the absence of detailed data on all streams, BLM elected to use vegetation information as the best method for approximating stream health. However, this information was not the only information used to establish condition ratings. An equally important component of the methodology was the related factor analysis. This analysis adjusted the condition arrived at using the vegetation information to account for such related factors as the amount of new and existing roads, soil stability, and adjacent land management practices to name a few.

COMMENT: It is uncertain whether a no-harvest prescription in the riparian management areas will necessarily improve riparian conditions in all situations. A "no touch" approach will not consistently maintain or generate quality riparian areas.

If a riparian area is brush dominated, one cannot expect successful natural conifer regeneration. Thus, these streams will likely remain shade deficient. Nor in a hardwood-dominated riparian area can one expect natural conifer succession. Thus, these streams will likely become deficient in large woody debris.

RESPONSE: The proposed resource management plan incorporates the Aquatic Conservation Strategy presented in the record of decision for the SEIS. One of the standards and guidelines for Riparlan Reserves under this strategy states, "Apply silvicultural practices for Riparlan Reserves to control stocking, resetablish and manage stands, and acquire desired vegetation characteristics needed to attain Aquatic Conservation Strategy objectives." Thus the proposed resource management plan does not propose a "no touch" condition. Activities which would enhance the development of confiers within riparlan management reas would be encouraged.

COMMENT: I hate to see buffer strips on creeks blow down and change the channel resulting in more slit reaching the creek than if they were logged. Cut some footage every year or so in each creek.

RESPONSE: The proposed resource management plan incorporates the Aquatic Conservation Strategy presented in the record of decision for the SEIS. One of the standards and guidelines for Riparian Reserves under this strategy states, "Remove salvage trees only when watershed analysis determines that present and future woody debris needs are met and other Aquatic Conservation Strategy objectives are not adversely affected."

COMMENT: The riparlan buffer strips which you propose are commendable in preserving water quality and fish habitat, but what about other wildlife?

RESPONSE: Riparian Reserves established in the proposed resource management plan are expected to benefit riparian habitat conditions for wildlife in addition to water quality, fish habitat, and the ecological and functional processes of riparian zones.

COMMENT: Retaining 50 to 240-foot no harvest buffers on each side of forest streams is excessive. Of what value is 200-300 percent of full protection, especially in areas where timber production is a management goal?

RESPONSE: In the proposed resource management plan, Riparian Reserves reflect widths established in the Aquatic Conservation Strategy of the record of decision for the SEIS. Widths for non-fish bearing streams are less than for fish-bearing streams, and they may be further modified after watershed analysis. Wider buffers are important in watersheds with degraded lish habitat, deteriorating watershed conditions and where wildlife goals

dictate wider buffers. They also reduce the potential effects of blowdown. Wider buffers also enhance biological diversity in watersheds that have received intensive forest management in the past.

COMMENT: While sound reason exists for keeping streams cool, solar radiation also stimulates the primary aquatic production cycle. Fish are dependent upon this cycle. Most likely there will be a balancing point where the benefits of providing shade will have a diminishing return to fish and stimulating primary production will have an increasingly positive effect. This important relationship is ignored in the BLM's documentation and must be recognized during the Agency's consideration of how streamside vegetation shall be managed.

RESPONSE: Solar radiation stimulates primary aquatic production but this must be balanced with the harmful effects associated with high stream temperatures. BLM lands are checkerboarded and intervening private lands often have less functional stream buffers than found on federal lands. Thus, the importance of maintaining adequate buffers on BLM-administered lands is magnified.

### Wildlife

COMMENT: Appendix 3-I (wildlife data) needs corrections. Distinctions between different forest successional stages are not defined, and it appears to be quite random as to which stages are assigned as primary habitat for many species. If Early Seral means natural stands with abundant snags and logs, the assignments would be quite different from those if this stage meant recent clearcut with few or no snags and logs.

RESPONSE: Appendix 3-I has been corrected and is available in the Salem District office files.

COMMENT: If the green tree leave system is used extensively, what effect will show up in subsequent stands with regard to species composition? Said another way, will subsequent stands tend more and more to shade tolerant species?

If more shade tolerant species begin to dominate the stands, have you taken into account their generally less useful and less valuable characteristics in your economic calculations? If yes, how?

RESPONSE: BLM agrees that the green tree leave system will likely produce subsequent stands with more shade tolerant species such as western hernlock and western redcedar. However, active management would substantially aid the regeneration of Douglas-fir sapilings assuming funding levels are adequate.

While the economic value of western hemlock and western redcedar is currently less than Douglas-fir, it is difficult to predict the value of timber by species in future years.

COMMENT: We note that some residual trees will be left after regeneration. This makes the system sound like a coppice with standards system. Yet, thinning, fertilization and use of genetically improved planting stock are referred to. Where is the experimental evidence available that shows that such a system will work?

RESPONSE: Shelterwood harvesting has been conducted to a minor degree in the Salem District so some data is available. Oregon State University and the National Biological Survey are conducting tests to evaluate harvest and silvicultural methods and their impacts on forest regeneration.

COMMENT: The proposed six to eight standing trees per logged acre is practically useless under the proposed preferred alternative. It is doubtful that many of the trees would still be standing in 80 years to provide a multilayered canopy.

RESPONSE: BLM agrees that blowdown is an ever present threat to trees standing in logged areas. BLM will attempt to locate these trees in the best possible position to avoid the effects of windstorms. The use of groups of trees and the positioning of trees in draws and lower parts of harvest areas are expected to reduce this threat.

COMMENT: The General Forest Management Area tree retention requirements will create more complex structural values on BLM lands, but at levels which are not consistent with reasonably expected use by wildlife species. A Forest Service publication states that snag densities less than on tree per acre would meet 100

percent of maximum populations for many bird populations including the BLM's selected indicator species.

RESPONSE: BLM is not aware of the Forest Service publication of which you refer. Observations of clearcut harvest unlis in the Salem District during the past decade indicate that very little bird use is present in clear cuts with less than one snag per acre. Many of the snags retained in the past are soft snags which will not be available in the long term.

COMMENT: The Oregon State Forest Practices Act regulations now call for leaving two snags or two green trees per acre during harvesting. The BLM plans call for six to eight green trees per acre to be left in most cases and 12 to 15 green trees per acre to be left in others. This is far more trees than are necessary to meet the needs of cavity dwelling birds and will likely provide more potential future nesting trees for spotted owls than they could ever use.

RESPONSE: Green trees will be left for a variety of purposes including: 1) retention of legacy trees in subsequent rotations, 2) future standing dead tree recruitment, and 3) future downed woody material recruitment. Thus goals are not just for cavity dwelling birds or as future nesting trees for spotted ow!

COMMENT: The BLM states that alternatives with higher timber harvest levels also negatively impact elk populations because of a higher road density network. It is not the existence of roads that influence elk, but the timing and amount of vehicular traffic BLM allows on the roads. It is our view that the higher forage levels produced under alternatives A and B, aided by forage enhancement programs (seeding and ferilization) and an effective road closure program will produce healthy elk populations when compared to the preferred alternative.

RESPONSE: BLM believes that a higher road density network does negatively impact elk in western Oregon. The state of Oregon in their overall response to draft BLM plans agreed with this assessment. Due to the checkerboarded nature of BLM lands, control of access on BLM-administered roads has been a fairly limited program. Closures affecting multiple land owners have been found to be difficult to implement (refer to Coos Bay District-BLM for their experience in attempting to draft a road closure plan for the district.) The terv historic closures in the Salem District have usually been in association with the Oregon Department of Fish and Wildlife to control hunting pressure. As such, they were enforced for only a brief period each year. This is not to say that road closure on the develop a comprehensive road management plan for its lands.

COMMENT: Seeding nonnative species to provide elk forage is destructive to native species of plants, and an outdated way to provide marginal forage. Far better would be to seed with native plants, using local genotypes.

RESPONSE: BLM would like to seed with native species of plants but there are few or no reliable seed sources at this time.

COMMENT: I disagree with your figures on your ability to increase elk "habitat" by decreasing your timber harvesting and doing supplemental forage seeding. Elk populations have been on the increase in the Coast Range in recent history, and the increase in population is directly correlated with forest management activities, i.e., timber harvesting.

RESPONSE: BLM believes that implementation of the proposed resource management plan may result in an increase in elk populations. Old-growth forests are rare on the Salem District (less than 10 percent of land base). Old-growth forests have the advantage of providing cover and forage in close proximity enabling elk to better survive under inclement weather conditions and to forage without undue harassment and poaching. Forage in old growth is produced in canopy openings created by tree mortality. Private lands managed under short harvest rotations will likely produce adequate forage for elk in the Coast Range in the near and long term.

COMMENT: If the private lands in the vicinity truly have "marginal" cover and forage conditions, as described in the plan, why are alk populations growing and flourishing on our lands? It seems ironic that Oregon Department of Fish and Wildlife-recommended hunting areas coincide so well with Weyerhaeuser and other intensively managed forests.

RESPONSE: It is true that elk are apparently doing well on private lands. However, old growth is a limited resource throughout western Oregon. This is the over-riding concern. Elk will use old growth as they did historically. Conversion of younger-seral stages to older forests on federal lands is not expected to be deleterious for elk considering forage production on adjacent private lands and historic use of old growth by elk.

COMMENT: The BLM has not discussed how its management actions will impact the decline of neotropical bird migrants.

RESPONSE: This section has been included in the proposed resource management plan. It should be noted, however, that data on these species is very limited and firm conclusions can probably not be made at this time.

### Fish

COMMENT: The resource management plan reflects a lack of objectivity. Nowhere, for example, was it found that the BLM discussed and addressed the species-specific requirements for rearing and spawning habitat.

RESPONSE: BLM did not discuss species-specific requirements for rearing and spawning habitat in the draft resource management plan/environmental impact statement or in the proposed resource management plan. This information was presented in the Analysis of Management Situation which is a planning document that summarized basic management information used in development of the draft draft resource management plan/environmental impact statement and subsequent proposed resource management plan.

COMMENT: Map #9 in the draft resource management plan doesn't appear to show anadromous fish in the South Fork of the Alsea, Lobster Creek, or any of their tributaries. This is an error as the District knows that there are anadromous fish populations in these basins.

**RESPONSE:** BLM acknowledges the fish distribution error. This map was dropped in the proposed resource management plan due to problems with the Geographic Information System fish data base.

COMMENT: The BLM relies on arguments purportedly based on scientific knowledge. However, this is not necessarily true.

For instance, the Salem District Draft Plan states: Based on research findings and district stream monitoring, alternatives no action and A would likely fall short of potential large woody debris by around 50 percent in the long term.

There is no indication of what research is being referenced here. Nor is there any presentation and discussion of the monitoring to which the statement refers.

RESPONSE: The lack of research documentation in the draft resource management plan is acknowledged. This is corrected in the proposed resource management plan by tlering to the extensive research summary in the SEIS.

COMMENT: The Salem District's evaluation of fish, fish habitat, and production is totally based on incomplete or outright false assumptions.

The method to rate streams for instance, and subsequent attempt to assess fish population lack any credible discussion of science or appropriate reference to science. There are many factors beyond the control of BLM resource management plans that have much greater impacts to fish populations than singling out a ridiculous rating of riparian conditions or stream conditions.

Factors such as other human development, urbanization, urban industrialization as well as direct impacts such as fishing levels or ocean conditions have been shown to significantly affect population levels of fisheries.

RESPONSE: The method to rate stream habitat and fish populations is outlined in Appendix 4-G of the draft resource management plan. Assumptions used in developing these ratings are provided, plus sources of the data used in the analysis. BLM recognizes there are many factors, most beyond BLM's ability to influence, which affect the population of anadromous fish. However, riparian habitat condition is one factor that BLM can control.

COMMENT: The estimates of long-term increases of cohe and steelihead (86 and 81 percent, respectively) are entirely unsubstantiated and overly optimistic. Considering the resource management plan is not recognizing the degraded and non-recovering condition of riparian areas on adjacent lands, and that the riparian management areas are too small to adequately protect and restore sensitive fish populations, there is no valid basis for these estimates.

RESPONSE: The proposed resource management plan tiers to the Aquatic Conservation Strategy presented in the record of decision for the SEIS. This strategy is described in appendix B6 of the SEIS. The proposed resource management plan is expected to benefit aquatic and riparian habitats more than other altematives because it applies Riparian Reserves Scenario 1 to intermittent streams and provides the largest amount of lands in Late-Successional Reserves.

COMMENT: Though the resource management plan recognizes the existence of 33 critical stocks on the district, it does not identify critical habitat for these declining salmonid stocks.

RESPONSE: The proposed resource management plan incorporates the Aquatic Conservation Strategy presented in the record of decision of the SEIS which is expected to benefit these species. The National Marine Fisheries Service is reviewing the status of certain fish stocks which may result in the identification of critical habitat in the future. The drainages used by Salem District critical stocks are listed in the proposed resource management plan.

COMMENT: The information presented in the fish populations and habitat section is very incomplete. Data and mention of sea-run cutthroat is substantially lacking. Accurate data on critical stocks is lacking. The resource management plan must be amended to reflect the best known science, principally the standards identified by the Scientific Panel on Late-Successional Forest Ecosystems.

RESPONSE: Some of the requested information on fish populations and habitat is presented in the Analysis of Management Situation which is available in the Salem District office. In addition, the proposed resource management plan liers to the Aquatic Conservation Strategy presented in the record of decision for the SEIS. The Strategy incorporates the latest findings on habitat and fish populations including critical stocks. The strategy is based on a numerous scientific studies including the report mentioned in the comment.

COMMENT: The data on population trends presented in table 3-19 of the draft resource management plan is suspect due to the flawed methodology of Oregon Department of Fish and Wildlife escapement estimates.

**RESPONSE:** The wild population trend is based on professional judgment after consideration of existing data and knowledge on the condition of these populations. It is not dependent on any one specific estimate.

COMMENT: It is a faulty assumption that streams are fully seeded both in the short-term and the long-term. Oregon Department of Fish and Wildlife's own data for coastal coho shows escapement levels have been below the biological target for years. This means that current habitats already under utilized (i.e., not fully seeded) and proposals aimed at providing even more habitat will not solve the problem.

RESPONSE: The assumption of fully seeded streams was used as a basis to enable BLM to rank the potential fish production levels on a relative basis under the various alternatives. BLM's responsibility is to manage riparian habitat to benefit fish populations. Oregon Department of Fish and Wildlife's data on population levels does not change this responsibility.

COMMENT: It is a faulty assumption that "fish species distribution is accurate based on current Oregon Department of Fish and Wildlife and BLM surveys." As recently as December 13, 1992, when an article appeared in The Oregonian, the Oregon Department of Fish and Wildlife admits its survey methodology was seriously flawed. The Oregon Department of Fish and Wildlife now believes that the numbers of adult coastal coho returning to spawn

have been overestimated. Regardless of habitat quality, adult spawners are not returning from the ocean at the biological levels necessary to sustain the populations.

RESPONSE: Fish distribution refers to the occurrence or nonoccurrence of fish species in specific stream reaches. It does not refer to the abundance of fish in those stream reaches. Oregon Department of Fish and Wildlife's methodology pertained to the calculation of fish escapement levels.

COMMENT: Road construction is a major threat to fish habitat on public land, even with today's higher construction standards. Given the at risk status of fish stocks within the planning area, increased road construction poses various risks to different stocks, which need to be discussed explicitly by the BLM. The draft resource management plan allows harvest on 10,670 acres of fragile restricted lands during the first decade, including many which are too steep, have a high mass movement potential or a high surface erosion potential. The draft plan recommends best management practices to reduce damage done to these lands during harvest, yet the effectiveness of these mitigation measures is not proven. Harvesting of high risk lands in light of the condition of fish habitat in the district's streams and the degraded fish habitat found throughout the region poses an unacceptable risk to fish.

RESPONSE: The proposed resource management plan incorporates the Aquatic Conservation Strategy presented in the record of decision for the SEIS (see appendix B6 of the SEIS). Standards and guidelines for road management in Riparian Reserves (see p. B-123 and B-124) include among other things competing watershed analyses prior to construction of new roads and determining the influence of each road on the Aquatic Conservation Strategy objectives through watershed analysis.

### **Special Status Species**

COMMENT: We are specifically concerned about the bald eagle roosting area in the Scappoose block which has apparently received no special protection in the Salem draft resource management plan.

RESPONSE: This issue has been clarified in the proposed resource management plan. All BLM actions will be consistent with the Pacific Bald Eagle Recovery Plan and implementation plan. The Raymond Creek site will be protected by a Late-Successional Reserve.

COMMENT: 1 find on page 2-28 the following: "BLM and BLM-permitted activities would be constrained or modified to the extent considered necessary. This would prevent federal listing of federal candidate (category 1 and 2) species known to occur only on BLM-administered lands." As I read it, no species occurring ONLY on BLM-administered lands would be subject to federal listing. This proposed exemption is simply unacceptable. It is really only on public lands that the Endangered Species Act can be enforced!

RESPONSE: BLM policy for special status species (BLM Manual 6840) varies according to the status of these species as determined by the U.S. Fish and Wildlife Service and according to BLM's own sensitive and assessment species lists.

COMMENT: The resource management plan should plan research into the habitat needs of the Haddock caddisfly.

RESPONSE: BLM cooperates in research on special status species through challenge grants with other agencies (e.g., The Nature Conservancy, Oregon Department of Fish and Wildlife). Although Haddock's caddisfly has not been prioritized for study by any of the above cooperators, research has been supported on other invertebrate species.

COMMENT: Several sensitive plant species are listed in the plan, but no specific information is given for management of these species, some of which occur in areas of critical envrionmental concern.

There are three plant spacies in Tillamook and Lincoln counties that are listed in the resource management plan/ environmental impact statement that are of concern to our chapter: Erythronium elegans, Dodecatheon austrofrigidum, and Fritillaria camechateensis.

The *Erythronium* and *Dodecatheon* are endemic to the north coast of Oregon. The *Fritillaria* is rarer on the north coast, but a more wide-ranging species. All three deserve the greatest protection due to limited populations and distribution.

RESPONSE: Specific information on the management of sensitive plant species is provided in the proposed resource management plan. The Salem District manages only one population of Dodecatheon austrofrigidum which is being monitored. The district also manages several populations of Erythronium elegans, including a population within an area of critical environmental concern. Other populations of Erythronium elegans are in plant reserves. Fritillaria camschatcensis is known from one boggy area in the Coast Range which is included in an area of critical environmental concern.

COMMENT: We believe that the resource management plan should reflect, at least in chapter 2, more accurately what the district is doing with its botany program.

RESPONSE: Additional information on the Salem District's botany program is provided in chapter 3 of the proposed resource management plan.

COMMENT: We request the BLM to model or estimate the number of suitable murrelet nest trees expected to exist under each alternative through time. Such an analysis is crucial information and should be divulged in the proposed resource management plan.

RESPONSE: BLM is not aware of any models which would estimate the number of suitable murrelet nest trees required over time. The proposed resource management plan tiers to the conservation strategy for the marbled murrelet presented in the record of decision for the SEIS.

COMMENT: The conclusion that habitat of the marbled murrelet is expected to decline in the short term under the preferred alternative due to the already limited amount of suitable habitat available within 50 miles of the coast is very misleading. Is this due to continued logging expected in suitable habitat?

RESPONSE: The proposed resource management plan tiers to the murrelet conservation strategy described in the record of decision for the SEIS. Most of the suitable habitat within 35 miles of the coast would be protected under that strategy.

## Spotted Owl

COMMENT: In the old growth emphasis area-2 (Nestucca block), there is a concern that the management scenario being proposed is untested and possibly too aggressive. Thus, it may not meet the intent of the spotted ow frecovery plan.

RESPONSE: The area referred to is now included in the Northern Coast Adaptive Management Area under the proposed resource management plan as tiered to the record of decision for the SEIS. Much of this area is a Late-Successional Reserve. Management emphasis is on restoration and maintenance of late-successional forest habitat, consistent with standards and guidelines for the spotted owl.

COMMENT: There is great owl production in the Elliot State Forest, which has been very intensely managed for more than 30 years. Why did the BLM not employ this data regarding suitable owl habitat?

RESPONSE: All relevant information was considered in adoption of the spotted owl conservation strategy in the proposed resource management plan which tiers to the record of decision for the SEIS.

COMMENT: The final plan should not just try to limit the decline of the spotted owl but help its recovery. Presently the only method to recover the spotted owl population is to increase the amount of old growth and mature forest. The number of old growth and combined old growth and mature forest blocks of all sizes should be increased not decreased.

RESPONSE: The proposed resource management plan incorporates the conservation strategy for the northern spotted owl in the record of decision for the SEIS which includes establishment of Late-Successional and Riparian Reserves and protection of occupied spotted owl sites. This strategy is the federal contribution to the recovery of the northern spotted owl.

COMMENT: The BLM should also question the primary definitions of suitable habitat based on where owls have been found on its land.

RESPONSE: Suitable habitat was defined by the U.S. Fish and Wildlife Service based on their understanding of habitat requirements of the spotted owl. Based on the best scientific information to date, old growth is the primary habitat for spotted owl nesting. Suitable habitat, as defined in scientific studies, was considered in development of the conservation strategy for the northern spotted owl in the record of decision for the SEIS.

COMMENT: There are no long-term demographic studies of spotted owls in natural old growth and younger-age forests. And yet old growth has been claimed as superior to younger forests for spotted owls.

RESPONSE: The SEIS includes the latest findings on spotted owl demographic studies throughout the range of the northern spotted owl.

COMMENT: There is a more proactive and efficient approach (i.e., alternative B) to spotted owl habitat management which has the potential of providing for both timber harvest and home range habitat on the majority of the land. Alternative B would provide for spotted owls on between 75-99 percent of the land (based on the premise that a spotted owl pair's home range needs only to be comprised of 30-40 percent nesting, roosting, and foraging habitat).

RESPONSE: In the Report of the Scientific Analysis Team (1993), the preferred alternative of the draft resource management plan was compared to alternative *D* of the preferred alternative, which is equivalent to the strategy recommended by the Interagency Scientific Committee. The SAT Report concluded that the preferred alternative introduced significant additional risk to the viability of spotted owls compared to alternative *D*. Alternative *B* would provide less suitable habitat for spotted owls in the short and long term than either alternative *D* or the preferred alternative. The proposed resource management plan incorporates the conservation strategy for the northern spotted owl in the record of decision for the SEIS.

COMMENT: One assumption which will have a dramatic effect on any model of this sort is the time needed to create "suitable" spotted owl habitat after treatment. It is our belief that stands will become functional foraging, roosting and nesting habitat in much less time than assumed in the draft plans given the silvicultural prescriptions used.

RESPONSE: The proposed resource management plan tiers to the analysis of effects of the northern spotted owl in the SEIS. The spotted owl habitat model in the draft resource management plan has been dropped.

COMMENT: The BLM documentation states that the high number of pairs is due to "packing." The packing theory has never been scientifically tested nor proven. There is no discussion in the document to support the validity of the packing theory. Studies in northern California are showing the highest reproductive rates are found in those areas with the highest density of owls. It is theorized that the habitat in this area is superior and is therefore attracting owls who are reproducing. Here is a situation where high numbers do not support the packing theory but run counter to it.

RESPONSE: The proposed resource management plan tiers to the spotted owl conservation strategy in the record of decision for the SEIS. The discussion on packing has been dropped from the proposed resource management plan. However, observations in the Salem District do not seem to show the 'packing' effects purportedly occurring in the Elliot Forest. That is, habitat limitations in the Coast Range are so restrictive that packing may not occur. Spotted owl populations are very low in the Coast Range. COMMENT: The U.S. Fish and Wildlife Service Recovery Plan, under Management Rules for designated Conservation Areas, states as follows: "No timber harvest is allowed in habitat suitable for northern spotted owls." Comparing your preferred alternative map with the FWS Recovery map, shows that you have designated most of the habitat conservation areas as Old Growth Ecceystem Area "Deferred" or "Non-Deferred". Both of these categories envision timber harvest sconner or later. How do your reconcile this with the Recovery Plan?

RESPONSE: The proposed resource management plan tiers to the spotted owl conservation strategy presented in the record of decision for the SEIs. This strategy provides for Late-Successional Reserves, Riparian Reserves, and protection of occupied spotted owl sites as of Jan. 1, 1994. As such, odd growth emphasis areas were dropped between the draft and the final. The strategy presented in the record of decision is expected to provide the federal lands' contribution to spotted owl recovery. Selem District-administered lands comprise part of this contribution.

COMMENT: It appears that the BLM did not model owl populations over time for the actual landscapes that would exist under the different alternatives but rather picked a hypothetical representative landscape for each. Both of these conventions tend to underestimate the frue capacity of the land to support spotted owls. The underestimation occurs because the size of any vegetative management activity will average less than 20 acres, the landscape Is not homogeneous but is interspersed with riparian leave strips and unsuitable lands and the overestimation of the time needed for stands to become suitable habitat.

RESPONSE: The proposed resource management plan tiers to the analysis of impacts presented in the record of decision for the SEIS. The analysis in the SEIS was based on acres of suitable habitat under the various alternatives in the short and long term. In addition, updated demographic data were considered in the analysis. The analysis of effects presented in the draft resource management plan has been dropped.

COMMENT: To develop the mathematical formula used in the owl habitat model in the draft resource management plan, the developers of the model must make numerous assumptions about how the species in question will react. The draft resource management plan does not reference the scientific research which validates the crucial mathematical coefficients used in the model.

RESPONSE: The habitat model in the draft resource management plan was dropped between the draft and the final. The proposed resource management plan tiers to the analysis presented in the record of decision for the SEIS. The latter analysis was based on acres of suitable habitat in reserves under the various alternatives both in the short and long term.

COMMENT: The biological needs for dispersal of juvenile spotted owls are easily met without going to the extremes of connectivity block management. Rotations of 150 years and retention of 12 to 16 green trees per acre are simply not necessary. On most high site lands managed by the BLM dispersal objectives for owls can be met within 30 years after timber harvest if a few green conifers, hardwoods and all down woody material is left on site.

RESPONSE: The proposed resource management plan tiers to the conservation strategy for spotted owls presented in the record of decision for the SEIS. Under the proposed resource management plan, Riparian Reserves, connectivity blocks, administrative withdrawals, etc. are expected to contribute to dispersal habitat needed by juvenile spotted owls. Connectivity/diversity blocks were located to enhance biological diversity opportunities and to provide some dispersal habitat.

COMMENT: Stating that only a percentage of the BLM's lands will be capable of supporting spotted owls is misleading and underestimates the true potential. It is commonly known that a spotted owl pairs home range needs only to be comprised of between 30-40 percent nesting, roosting, and foraging habitat. The preferred alternative would contain 149,000 acres of suitable habitat after 10 years. This is enough suitable habitat to provide between 335,250 and 447,000 home range acres, which could support 110 to 150 pairs.

RESPONSE: BLM's Salem District has about 53,000 acres of habitat suitable for nesting by spotted owls. Of this total, about 31,000 acres are considered as old growth. Spotted owl pairs in the Salem District are most abundant in the Cascade Range where most of the existing old growth occurs (specifically the Santiam Resource Area). Very few spotted owl pairs have been located in the Coast Range which has been listed as an Area of Concern by the U.S. Fish and Wildlife Service. BLM's data provides support for the view that spotted owls are surviving best in areas with the greatest amounts of old-growth stands remaining. Given this background, a more conservative view for owl protection may be appropriate.

### Lands

COMMENT: How will the BLM handle requests for rights-of-way for private and other public landowners to access their property? If the BLM denies access for one reason or another, will the landowners be compensated for their loss?

RESPONSE: BLM is required by law to grant reasonable access to adjacent properties. This requirement has been added to the proposed resource management plan.

COMMENT: Exchanges to enhance old growth enhancement areas and connectivity areas should not occur until the proposed management strategies are tested and determined biologically sound and if the public accepts the premise advanced in the preferred atternative. The plan should be changed to reflect this policy.

RESPONSE: The proposed management strategies will take many years to test to determine biological soundness. Delaying exchanges until that time would be unreasonable. Blocking up lands as opportunities arise will benefit BLM management regardless of the eventual management strategy.

COMMENT: From a conservation of timber supply standpoint, we understand the restriction that O&C lands available for timber production would not be candidates for exchange. In reality however, this constraint would stop many exchanges.

RESPONSE: The preferred alternative (see page 2-38 of the draft resource management plan) and the proposed resource management plan do not prohibit exchanges involving O&C timber land. Management direction is to consider exchange of O&C lands available for timber management for lands to be managed for multiple use purposes.

# **Special Areas**

COMMENT: The draft resource management plan states that some of Grass Mountain has "been disturbed by off-road vehicle (ORV) use". The area has been closed to ORV use. In order to effectively close the area to vehicle use the BLM needs to physically close roads. We propose blocking both of the access roads to the top of the mountain via ditching or the placement of large boulders or wood in the roads.

RESPONSE: Although the area has been disturbed by off-highway vehicles in the past, very little disturbance has occurred in the last ten years. Permanent road closures as suggested would restrict BLM resource management activities and severely limit emergency access in case of fire. If off-highway vehicle disturbance is discovered through future monitoring, the need for road closures will be reevaluated.

COMMENT: In appendix 4-J, Forest Peak was listed as only a potential area of critical environmental concern when actually it is recommended as an area of critical environmental concern/research natural area by the preferred alternative.

RESPONSE: This omission has been corrected.

COMMENT: The Nature Conservancy inventoried and recommended a site near Snow Peak in the Santiam Resource Area for area of critical environmental concern nomination. We would like to encourage the District to move forward with the area of critical environmental concern criteria screening for the site. RESPONSE: We were unable to screen this nomination due to the timing of the submission and other work priorities. The nomination will be screened as scon as the proposed resource management plan record of decision is signed. Site values will be protected until that time.

COMMENT: The preferred alternative removes Alsea Bay Island from proposed area of critical environmental concern (ACEC) listing. ACEC status for this wetland is needed to support the plan's stated goal of biodiversity. Lincoln County planning designations will not protect the area. There are reports of a rare Orthocarpus on the Island. A botanical survey is badly needed before its values as an ACEC can be properly appraised.

RESPONSE: The Alsea Bay island was evaluated for importance and relevance, as are all area of critical environmental concern candidates. We felt the importance criterion was met, but the relevance criterion was not met because the risk level to the natural values there is very low. The Island will be managed as a Riparian Reserve under the proposed resource management plan.

The area has had several botanical surveys in the past. In fact, Steliaria humifusa (spreading starwort) which is an Oregon Natural Heritage Program (ONHP) List 37 watch plant (BLM tracking species) has been identified on the island. This island does provide "habitat" for a proposed ONHP List 4 watch plant /BLM tracking) Orthocarpus castillejoides now called Castilleja ambigua, but this species has never been identified on the island. The island will receive additional botanical clearances/surveys in accordance with the management framework plan botany monitoring.

COMMENT: In spite of continued designation of Sheridan Peak as an area of critical environmental concern in the preferred alternative, timber harvest is planned. The preferred alternative is unacceptable, because by definition an area of critical environmental concern cannot be managed for multiple use. Timber harvest will have an adverse affect on *Poa marcida*.

RESPONSE: Multiple use is allowed in areas of critical environmental concern as long as primary values can be protected. Evidence suggests that Poa marcida will survive limited timber management. The limited timber management that might occur in the area of critical environmental concern would be for habitat improvement, including opening up the overstory and thinning the understory. A closed canopy is adversely affecting Poa habitat. This disturbance is likely to promote Poa marcida and not have an adverse effect. If monitoring detects adverse impacts on Poa from harvest activity, additional mitigation measures will be considered during future site-specific planning.

COMMENT: Plant species of special interest in Grassy Overlook potential area of critical environmental concern have not remained intact (page 3L-2), and reduction of the protected area will further degrade biodiversity in this watershed.

RESPONSE: The plants of interest in the Grassy Overlook timber sale were addressed in an environmental assessment. Special precautions and contract stipulations were developed to minimize negative impacts on the population. Post project monitoring verified that the measures were adequate. Future management of this area will be on an ecosystem management basis, which will consider all plants and which should assure future biological diversity in the area.

COMMENT: My understanding is that Table Mountain was to be or has been designated as a national natural landmark. I can find no discussion of this special federal status nor a specific plan for its management anywhere in this volume. It deserves protection under the plan's goal of biological diversity.

RESPONSE: Table Mountain is addressed in appendix 3-M (page 3-M-3) and appendix 2-E (page appendix 2-18) of the draft resource management plan. Although the area does not qualify as an area of critical environmental concern, it would be managed as a Late-Successional Reserve under the proposed resource management plan. The national natural landmark designation was made by the National Park Service. The designation will continue, but management will be dictated by the Late-Successional Reserve allocation.

COMMENT: Big Canyon Area of Critical Environmental Concern should be retained as an ACEC. It has high educational potential, and access through private property has not been a problem in the past.

RESPONSE: The educational value of the canyon is recognized by BLM. Late-Successional and Riparian Reserve land allocations will protect the educational values. While access has been obtained by some visitors, all adjacent landowners have firmly rejected government efforts to purchase public access. In addition, some landowners have expressed concern to BLM about the frequency of public requests to cross their property.

COMMENT: The preferred alternative deletes Yellowstone Creek from area of critical environmental concern candidacy. Management has overridden the recommendation of its interdisciplinary team. That the preferred alternative would have no impact is misinformation. This beautiful area should be protected from logging and developed as a recreational resource for the public and conserved for its biological diversity.

RESPONSE: Although the area has been removed from designation as an area of critical environmental concern, it will be managed as a Late-Successional Reserve and Riparian Reserve.

COMMENT: The preferred alternative should include a goal of writing management plans for all designated research natural areas within the next five years. The plan should designate buffer zones around the boundaries of areas of critical environmental concern and research natural areas to ensure that resource management actions do not threaten the continued maintenance of the features for which the areas of critical environmental concern were designated.

RESPONSE: All of the currently designated research natural areas are included in an area of critical environmental concern management plan. Plans for the two new research natural areas will be developed as soon as possible after the record of decision is signed.

Most of the areas recommended for area of critical environmental concern designation have built in buffers. Some do not because they are isolated tracts of BLM-administered land. The impacts of adjacent land uses and management activities are evaluated during monitoring. If boundaries are found insufficient to protect primary values, adjustments on BLM-administered land may be made by area managers.

COMMENT: Chapter 2, p. 2-53, states that off-road vehicle use will be limited in High Peak/Moon Creek Research Natural Area. Off-road vehicle use is not compatible with research natural area management and should be prohibited within all research natural areas, on and off roads.

RESPONSE: The proposed resource management plan/final environmental impact statement has been corrected to show High Peak/Moon Creek Research Natural Area as closed to off-highway vehicles.

COMMENT: If you have no planned harvest in your designated special management areas, how do you propose to establish conifer trees in areas where they are needed?

RESPONSE: Most of the areas of critical environmental concern in the Salem District have special natural values. The purpose of designating these areas is to allow natural processes to continue with minimal disruption. Growing trees for harvest is not compatible with this purpose.

COMMENT: The document is unclear regarding mineral withdrawal for the two proposed research natural areas and the existing research natural areas. Withdrawal is important for research natural areas in order to protect the sites from existing and potential mineral development.

RESPONSE: As shown under the no action alternative (i.e., current management) table 2-3, all of the research natural areas except Little Sink are open to locatable mineral entry, and all of the research natural areas are open to mineral leasing. The table shows that proposed management under the proposed resource management plan is to close all research natural areas to locatable mineral entry and to allow mineral leasing with no surface occupancy. COMMENT: We strongly recommend closing all roads in and through research natural areas, either by putting the road to bed (restoration) or by gating roads that are needed for long-term access. The Shafer Creek proposed research natural area also has several small, old and relatively overgrown skid roads that could benefit by having more substantial barriers to access.

RESPONSE: Road management will be addressed on a watershed basis considering such allocations as Late-Successional Reserves, Riparian Reserves, research natural areas and areas of critical environmental concern.

Physical closure of roads in the Shafer Creek Area of Critical Environmental Concern/Research Natural Area will be considered during the area of critical environmental concern management plan process.

COMMENT: We feel that limited use of the Sheridan Peak Area of Critical Environmental Concern is compatible with its protected status. This use would be compatible if motorcycles were limited to the existing motorcycle road and jeep trail. As no *Poa marcida* lives on the road or trail, the plant would not be harmed by motorcycles.

RESPONSE: The management proposal in the proposed resource management plan is to allow limited offhighway vehicle use. How much use and where will be determined when the current area of critical environmental concern management plan is revised.

## Cultural Resources

COMMENT: Mining activities seem to have been glossed over in the plan. Excavations, removal and associated structures have economic value as well as possibly adverse environmental impact. The plan needs to address these uses in more detail.

RESPONSE: Past, current, and future mining activities are described in chapters 2, 3, and 4 and appendix DD. Mining activities on BLM-administered land in the district are very limited and not expected to occur to any great extent in the future. As stated in the introduction to chapter 4, "The liming, duration and degree of [mineral] development is speculative and cannot be estimated at reasonably accurate levels given current information." Therefore, no estimates were made of possible economic contributions.

The only other possible economic value of mining is related to sightseeing at mining locations. There are no mining sites with sightseeing value on BLM-administered land in the district (see chapter 3, Cultural Resources).

### Visual Resources

COMMENT: Separating the parcels in the Mt. Hood Corridor conflicts with the very definition of visual resource management classes VRM I and VRM II. All parcels within the viewshed should be allocated VRM I. BLM holdings are fragmented in this corridor yet each remaining parcel has a significant effect on the scenic quality of the entire area.

RESPONSE: Under the proposed resource management plan, all BLM-administered lands within the boundary of the proposed Mt. Hood Corridor Special Recreation Management Area will be managed as VRM Class I.

# Recreation

COMMENT: It is my understanding that much of Hunchback, as well as all other "viewable" BLM land will be designated as "SRMA" under your draft plan. Management of our watersheds is becoming more and more critical. Why not make the entire BLM boundary in that area a SRMA?

RESPONSE: Special recreation management area designation is a BLM-specific status given to an area where recreation is a primary management objective. Such recognition applies only to the acreage degically tied to the identified recreation values rather than applying across the general landscape/watershed. If other values present are at issue in the broader landscape area, such as those related to watersheds, land-use allocations other than special recreation management area would more logically apply. To carry the entire BLM-administered area as an special recreation management area would simply be an inappropriate designation from a management standpoint.

COMMENT: Significant response for the proposed 2,600 acre Mt. Hood Corridor Special Recreation Management Area was received by the BLM, with support directed specifically toward "no planned timber harvest" and "remove special recreation management area from the base (allowable sale quantity)".

RESPONSE: Unlike wildemess designation, special recreation management area designation does not, by definition, preclude activities related to forest management. So long as these activities, such as road construction and timber harvest, are not inconsistent with management objectives related to recreation and visual resource management, they would be allowed to occur within special recreation management area boundaries. Also refer to the Mt. Hood Corridor response under Rural Interface Areas.

COMMENT: We strongly oppose ORV use not only for the Marys Peak Area of Critical Environmental Concern/ Outstanding Natural Area but for the proposed 2,317-acre special recreation management area.

RESPONSE: Off-highway vehicle use is a recognized, legitimate activity on the public lands. Within the confines of the law, and where there is adequate evidence that such activity is not inconsistent with other resource management objectives, off-highway vehicle use will be allowed. President Richard Nixon's 1972 Executive Order 11644 and President Jimmy Carter's 1977 Executive Order 11989 both support this position. There are only three reasons where off-highway vehicle use on BLM-administered lands would be closed or limited including; 1) to protect resources; 2) to promote visitor safety; and 3) to minimize conflicts among the various land uses. Where one or more of these reasons justify regulation of off-highway vehicle use within either the Marys Peak Area of Critical Environmental Concerr/Outstanding Natural Area or the proposed special recreation management area, a closed or limited off-highway vehicle designation will be implemented.

COMMENT: The proposed Marys Peak Special Recreation Management Area's planning should consider its Native American history.

RESPONSE: We agree that this should be an important aspect of management planning for the special recreation management area.

COMMENT: The BLM's draft resource management plan has deviated significantly from the Analysis of the Management Situation proposal to designate a 2,600-acre Mt. Hood Corridor Special Recreation Management Area, with no planned timber harvest, and has failed to provide quantitative data to support proposed land allocations.

RESPONSE: BLM's Analysis of the Management Situation addressed possible management opportunities, not proposals. While it is true that the draft resource management plan deviated significantly from this document, BLM simply is not in a position to adopt, as proposals, every possible opportunity associated with management of the public lands.

COMMENT: Provide more emphasis for recreation opportunities in the Mt. Hood Valley Corridor. This draft plan does not address potentials.

RESPONSE: We disagree that the draft resource management plan does not address recreation management potentials in the Mt. Hood Corridor area. The BLM-managed Wildwood Recreation Site, historic Barlow Road, Boulder Ridge Trailhead and Trail, McIntyre Ridge Trailhead and Trail, congressionally designated Salmon Wild and Scenic River, Mt. Hood Corridor Special Recreation Management Area, scenic values along State Highway 26, and the Sandy River segments eligible for inclusion as components of the National Wild and Scenic Rivers System are all specifically addressed.

COMMENT: Develop a site-specific resource management plan for the Mt. Hood Corridor Special Recreation Management Area.

RESPONSE: The Mt. Hood Corridor is, by definition, too small an area to justify the process necessary to develop a resource management plan separate from the districtwide plan. Preparation of a site-specific, postrecord of decision recreation area management plan for the special recreation management area would be more in line with the BLM land use-planning policy.

COMMENT: Table S-2 gives capability to meet 10-year demand in recreation. What about 20-year and 50-year demand? The population of this area is mushrooming.

RESPONSE: The models used to derive the recreation demand data base were not capable of projecting 50year demand. While a recreation demand projection was available for the year 2010, the year 2000 projections were selected because they more closely match the resource management plan's planning horizon.

COMMENT: Action for expanding recreational and educational opportunities must be taken now. Nearly all areas of the Salem District will continue to experience increasing populations which will also create a demand for more recreational facilities and opportunities.

RESPONSE: We agree, however implementation of proposed resource management plan recreation-related decisions, particularly those involving facility construction projects, will be dependent on future funding.

COMMENT: In response to the growing demand for recreational opportunities by both Willamette Valley residents and tourists, the text of the draft plan should clearly state how new or improved recreational facilities (e.g., campsites, trails, interpretive kiosks) and the proposed multiple use area on Marys Peak will enhance public recreation opportunities.

RESPONSE: The Effects on Recreation section in chapter 4 describes this information.

COMMENT: The text included under chapter 4 - Environmental Consequences (pp. 55-58) suggests that BLM contemplates reductions in recreational facilities in the Alsea Resource Area. BLM and Forest Service camping facilities are already at or near full capacity for much of the year. In order to be consistent with the Salem District's draft plan's goal of reducing detrimental impacts to communities arising from reductions in annual timber harvest levels, enhancement of recreational opportunities and new facility construction should be made a high priority in the Alsea Resource Area.

RESPONSE: Chapter 4 describes environmental consequences associated with a range of alternatives - each of which considers varying management direction and resource allocations. While it is true that the consequence of managing under some alternatives would lead to recreation facility/opportunity reductions, it is equally true that projected recreation demands, including those dependent on developed facilities, would be fully met through management under other alternatives. We agree that enhancement of recreation populatilies and development of new recreation facilities will be a factor in the economic stability efforts of some communities.

COMMENT: The preferred alternative places too much emphasis on off-road vehicles. Instead of trying to increase ORV opportunities, BLM should conduct a districtWide inventory of sensitive wildlife areas and areas with currently high road densities or ORV use. BLM should then remove or close roads in these areas and prohibit ORV use. In the meantime the salem District should adopt the State of Oregon's recommendations on road management and adopt closures to Immediately benefit big game. Development of Interpretive trails for hiking, horseback riding and wildlife viewing should be given priority over off-road vehicle area development in the district.

RESPONSE: See previous response related to off-highway vehicle use within the Marys Peak Area of Critical Environmental Concern/Outstanding Natural Area and Special Recreation Management Area. It applies equally to all other BLM-administered lands.

COMMENT: The draft resource management plan contains no environmental analysis concerning the decision to allow ORV use across 287,700 acres on the District. The use of ORVs over 287,700 acres could potentially have significant environmental effects, which are never analyzed in the draft resource management plan. Any ORV use which is currently occurring should cease until the environmental impacts of this activity are analyzed.

RESPONSE: See previous response related to off-highway vehicle use within the Marys Peak Area of Critical Environmental Concern/Outstanding Natural Area and Special Recreation Management Area. It applies equally

to all other BLM-administered lands. We disagree that the environmental effects of off-highway vehicle use have not been analyzed. As already discussed, there are only three reasons where off-highway vehicle use on BLMadministered lands would be closed or limited including: 1) to protect resources; 2) to promote visitor safety; and 3) to minimize conflicts among the various land uses. With these three guidelines considered, our analysis shows that tens of thousands of acres under each of the management alternatives would be closed or limited to offhighway vehicle use. In the absence of one or more of these reasons, our analysis concludes that the lands should remain open to visitors using off-highway vehicles pending evidence that more restrictive regulation should instead be implemented.

COMMENT: We are also concerned about maintenance of parks and trails. It doesn't seem logical then to create more.

RESPONSE: The need for the BLM to develop additional recreation sites and trails is based on recreation activity demand projections for the region. Budgetary constraints notwithstanding, the Salem District is committed to meeting its role and responsibilities as a federal provider of developed facilities. Speculation about future operation and maintenance funding should not constrain potential development projects at the land-use allocation phase of planning process.

COMMENT: We are adamantly opposed to a trail system which would negatively impact forest management on public or private land but we are especially concerned about the proposed trail from Parker Creek to the North Fork fish hatchery. We are concerned about fire and other hazards, but we are most concerned about the loss of control of our own property by the establishment of any permanent uncontrolled public right-of-way.

RESPONSE: The potential trail within the North Fork Alsea River drainage is just that, a development potential. The BLM recognizes that any linear trail route traversing public and private lands can only be accomplished through cooperation/agreement with the private sector - and with public support. The resolution of specific issues, such as fire hazards, would need to be ocoperatively addressed in the agreement negotiations. Concerning this particular potential trail, forest management activities would not be affected on either public or private and since the purpose of the trail would be to provide visitor access through a managed forest setting. Regarding the loss of control of private lands, the federal government would not have any right of control over lands and resources on privately owned property, and neither would the general public.

COMMENT: We want our 12 miles of motorcycle trails listed in the first paragraph of the "Recreation" section,

RESPONSE: This is not the appropriate location for this reference. It has been added to the table listing existing trails as the Tillamook Off-Highway Vehicle Trail.

COMMENT: Our existing motorcycle trails are not listed in Table S-1.

RESPONSE: Table S-1 has been edited to reflect this trail and its total mileage.

### Wild and Scenic Rivers

COMMENT: Do you recommend W&SR designations based on the criteria in the W&SR Act? If not, why not?

RESPONSE: The criteria set forth in the Wild and Scenic Rivers Act are binding on all federal agencies involved in planning for the use and development of water and related land resources, and the BLM follows these criteria explicitly.

COMMENT: Criteria for wild and scenic designation and protection requires that the eligible system be clearly superior. The plan does not document how the various criteria were applied to the rivers identified by the BLM. ...to de-facto listing. Since many of these rivers do not include a majority of the BLM-administered lands, we question this management approach.

RESPONSE: We agree that river segments determined to be eligible for inclusion as components of the National Wild and Scenic Rivers System need to be clearly superior. The Wild and Scenic Rivers Act mandates that a river segment must meet only two criteria to be determined eligible; it must be a free-flowing segment, and have at least one value determined to be outstandingly remarkable. All river segments determined eligible by the BLM met these two criteria. We disagree that the plan does not document how the various criteria were applied to identified river segments. District files document, on a river-segment by river-segment basis, the eligibility and classification determination process. Appendix J of the proposed resource management plantifinal environmental impact statement summarizes the criteria used, and appendix I summarizes the results of the process as applied. Protection of the free-flowing character and outstandingly remarkable values of segments determined to be eligible is BLM policy, and constitutes "de-facto listing" only to the extent required by law. Finally, regarding the comment about many rivers not including a majority of BLM-administered lands, we point out again that land ownership is not one of the criteria used to determine segment leligibility and classification. The land ownership question is considered during the suitability portion of the overall river study process, and was a screen used to decide which eligible river segments would be assessed for suitability in the resource management plant.

COMMENT: Why does the government want to take it away from the property owners who have had by rights for over a hundred of years?

RESPONSE: Congressional designation of a river segment as a component of the National Wild and Scenic Rivers System does not automatically confer to the federal government any right of control over lands or resources on privately owned property. Regarding any right on private lands, the BLM does not want or desire to "take it away from the property owners" as suggested by the comment.

COMMENT: Analysis of potential W&SR is severely flawed by finding that "outstandingly remarkable values" shift or disappear according to management alternative chosen.

RESPONSE: The outstandingly remarkable values do not "shift or disappear" through the selected range of reasonable management alternatives analyzed. What changed across the range of alternatives was the finding of suitability for the eligible river segments studied, not the outstandingly remarkable values.

COMMENT: It appears the process used to determine W&SR Act suitability and recommendations was arbitrary and did not comply with the spirit or the letter of the W&SR Act.

RESPONSE: The process used was neither arbitrary nor blind to the mandates set forth in the Wild and Scenic Rivers Act. The Act mandates are binding on all federal agencies involved in planning for the use and development of water and related land resources, and the BLW follows them explicitly.

COMMENT: This plan fails to protect the "outstandingly remarkable values" which caused the W&SR to be designated and which must be protected by terms of the W&SR Act.

RESPONSE: Outstandingly remarkable values within the administrative boundaries of designated wild and scenic river segments will be protected by the land use allocations and wild and scenic river program management actions/direction under the proposed resource management plan. Of particular significance will be the revision of existing river management plans to address attainment of Aquatic Conservation Strategy objectives.

### Timber

COMMENT: What is the approximate reduction in yield predicted by the Stand Projection System (SPS) due to green tree retention? ... is this reduction based on experimental evidence or is it a best estimate?

RESPONSE: Green tree retention reduces stand yields in two ways: (1) the yield at regeneration harvest excludes the volume contained in the retained trees, and (2) the growth of the new stand is reduced by the competition of the overstory trees. This reduction in growth varies in SPS according to the number of green trees retained per acre. For the six to eight tree per acre retention in the General Forest Management Area under the

proposed resource management plan, understory tree growth was reduced about 8 to 10 percent by overstory competition. These reductions appear reasonable, but such a management regime is outside the range of empiric data used to build the SPS model, so the results are somewhat speculative.

COMMENT: The sustained units as defined in the plan should be all of the district and not portions of the district.

RESPONSE: The management team decided not to pursue this option because of the likelihood of creating excessive cumulative impacts in specific watersheds.

COMMENT: The proposals do not clearly identify sustainability of harvest over extended periods--until 2020, 2050, and until 2090. The issue is not just volume of wood, but also quality of wood. Thus the proposal for early harvest of a major proportion of the remaining old growth will severely restrict resources available in succeeding decades.

RESPONSE: The Trim-Plus model is used by BLM to determine the maximum sustainable harvest level over a 400-year period within the constraints of the selected management regime. While the size or quality of harvested timber would vary over time, the longer rotations planned for the Connectivity/Diversity Blocks under the proposed resource management plan would result in harvest of larger, higher quality wood in the future compared to forests managed on shorter rotations. Plannet he Adaptive Management Area under the proposed resource management plan are also expected to include a significant portion of large, high quality logs. Under the proposed resource management plan, less than 1.5 percent of the existing old-growth forest on the Salem District is projected for harvest during the first decade of the plan.

COMMENT: Remove from the allowable sale quantity all parcels located within the valley to reduce undue pressure on management objectives and to protect resources present.

RESPONSE: For the most part, BLM parcels scattered within the Willamette Valley have already been excluded from the probable sale quantity base because of a variety constraints relating to other resource values.

COMMENT: For the General Forest Management Area of the preferred alternative and its equivalent in the other alternatives, widespread use of uneven-aged cutting with single-tree and small group selection (under three acres) on a 200 to 300 year replacement cycle can result in a truly sustainable forest. The leaving of snags and considerable large wood debris needs to be part of an uneven-age scheme. An alternative should be developed, or at least one of the existing alternatives modified to make long cycle, uneven-aged management the silviculture method for the General Forest Management Area of the preferred alternative. This alternative should be the final preferred alternative.

RESPONSE: Under the proposed resource management plan, longer rotations and uneven-aged or multistory management regimes would be used in the Connectivity/Diversity Blocks and probably in the Adaptive Management Area as well. Management within the General Forest Management Area, however, is Intended to reflect an emphasis on intensive timber production. Nevertheless, all harvest planning for General Forest Management Area projects will include provisions for maintaining or improving the amount of snag and large woody debris habitat, as well as retention of some large green trees on harvested areas.

COMMENT: The BLM should assist in the development and use of technologies appropriate for thinning, such as smaller tractors and yarding systems, rubber tired skidders, horse logging, and helicopters.

RESPONSE: Under the proposed resource management plan, BLM expects to make increased use of logging systems appropriate for thinning.

COMMENT: The small patch cuts proposed for old growth enhancement areas would adversely impact the long-term productivity of the land. They also would not provide sufficient light for regeneration of Douglas-fir, and would result in a shift to shade-tolerant species. In addition, logging costs would increase, animal damage would be greater, and future stands may be more susceptible to health problems.

#### Salem District Comments / Responses

RESPONSE: Recent studies indicate partial cuttings and patch cuts would be feasible in most western Oregon forests. The impacts to long-term productivity would depend on the nature of the logging operation. An increase in the percentage of shade-tolerant species in stands would be expected, and logging costs would certainly be greater. However, a more diverse stand should be more resistant to insects and disease than single-storied stands composed of only one or two species.

COMMENT: Acreage in commercial thinning seems excessive - are the harvest levels of the preferred alternative lower (in thousand cubic feet and thousand board feet) because smaller trees will be harvested?

RESPONSE: The acreage of commercial thinning is higher under the proposed resource management plan than under the previous plan for several reasons: (1) The longer rotations planned for the Connectivity/Diversity Blocks and probably the Adaptive Management Area would allow more time for implementation of multiple thinnings on an individual stand; (2) most thinnings in the Connectivity/Diversity Blocks and Adaptive Management Area, and all thinnings in Late-Successional Reserves, would be designed to promote development of latesuccessional forest conditions, often in stands which would not have been considered suitable for thinning for timber production purposes; and (3) recent increases in timber stumpage values have greatly expanded the range of stands which would be economically feasible to thin.

Under the proposed resource management plan, harvest levels are substantially lower than they would be under any other alternative. This is a result of the greatly reduced acreage available for timber production. The size of trees harvested would be equal to or greater than those harvested under the other alternatives.

COMMENT: We are concerned that the BLM may overly constrain harvesting operations on lands classified for special visual management. We could not find disclosure in the draft environmental impact statement detailing the expected impact on timber production from the various visual resource allocations.

RESPONSE: Only the visual resource management class II (VRM II) results in additional constraints on timber management. On approximately 1,000 acres of BLM-administered lands classified as VRM II within the General Forest Management Area, timber would be managed on a longer rotation similar to that of the Connectivity/ Diversity Blocks. Because of the small number of acres affected, no reduction in the probable sale quantity was projected due to VRM II restrictions.

COMMENT: Live tree retention has some serious costs and consequences associated with it. These include reduced yields, reforestation problems, wind firmness, and future stand health. With live tree retention on the order of six to eight trees per acre, yields could be reduced anywhere from 5 to 10 percent. With higher retention rates, e.g., 12 to 15 trees per acre, yields could decline as much as 20 percent.

RESPONSE: Green tree retention will indeed reduce yields and increase costs of logging. The yield reductions stated in the comment are in agreement with BLM estimates. The benefits of green tree retention relate to provision of snags for wildlife and to development of older-forest structure over time.

COMMENT: The BLM plan to defer regeneration harvesting for 80 years on the majority of the old growth emphasis area acres has essentially the same impact on communities and county revenues during the next ten years as a decision to permanently remove the acres from management. During the next eight to nine decades of deferred management there will be huge losses in old growth enhancement areas to insects, diseases, fire, and windstorms if an aggressive salvage program is not instituted.

RESPONSE: Under the proposed resource management plan, there are no harvest deferrals, except that existing patches of older forest would be deferred from harvest in watersheds where little older forest remains. The forest lands within the Late-Successional Reserves, however, would not be available for any scheduled timber harvest. Some younger stands would be considered for density management thinnings, where the treatment would be beneficial to the development of late-successional forest conditions. If large numbers of trees within the Late-Successional Reserves are damaged or killed by insects, disease, fire, or wind, appropriate salvage harvest would be considered.

COMMENT: The BLM should make a clearer statement that it has not overcut its forestlands. The current inventory tables show a significant increase in volume from the previous inventory completed in 1978. The higher than expected growth rates are attributable to the intensive forest management practices employed on much of the BLM lands and to use of conservative modeling estimates. Arguments are made that these lands are being cut at levels which cannot be sustained. The fact is, as evidenced by the latest inventories, these lands were actually capable of producing even higher levels on a sustainable basis.

RESPONSE: The inventory does show that BLM's harvest level over the past decade is sustainable, given the land use allocations and management practices that were used. Reduced probable sale quantity levels in the proposed resource management plan are a result of different land allocations and changed management regimes.

COMMENT: Present Net Value (PNV) should not be used as a timber management tool for our public forests. It puts too much emphasis on short rotation tree farming at the expense of maintaining a true forest.

RESPONSE: BLM economists have used PNV as a tool to compare the efficiency of various intensive practices. However, the final selection of management regimes is based on a balanced consideration of many factors.

COMMENT: It has been reported in the press that substantial portions of BLM acreages harvested have not been replanted. Is such a situation actual in the Salem District? It would be useful to have a specific factual summary of the actual number of acres within the area allocated for timber production which have not been replanted after harvest, those replanted and considered fully stocked, those replanted with problems in achieving stocking, those harvested before replanting was required with some breakdown of stocking status, and those never harvested. It is important both for industry and for various elements of the public that rely on this important resource to have a factual base.

RESPONSE: There has been considerable misinformation and misunderstanding of this question in the media. In fact, it has been BLM policy for at least the last three decades to promptly reforest all harvested areas. This is done in most cases by planting nursery-grown seedings, but aerial seeding was common in the past. Where the first planting attempts are not successful, areas are re-treated until desired stocking levels are achieved. Of the forest land harvested in the last 20 years on Salem District, only about one percent currently has less than the minimum acceptable stocking.

COMMENT: Precommercial thinning and commercial thinning can supplement timber supply and result in high quality wood. Pruning should be utilized 10-20 years after partial cut thinning and 10-20 years before commercial thinning to enhance wood quality. Utilization of material thinned, whether as chips or saw logs, would add to the overall productivity of the site.

RESPONSE: BLM anticipates that all of these practices would be used, where appropriate, under the proposed resource management plan.

COMMENT: For the old growth emphasis area, and for comparable productivity class land, what is the reduction in present net value of that management regime as compared to the General Forest Management Area, again for comparable productivity class land?

RESPONSE: Economic analyses were done to estimate the present net value (PNV) effect of each of several intensive forest management practices taken singly. PNV analysis was not undertaken on complete management regimes, such as those proposed for the General Forest Management Area under the draft resource management plan preferred alternative. Under the proposed resource management plan, the timber management regimes for the Late-Successional Reserves or Connectivity/Diversity Blocks would certainly yield much lower PNVs than those of the General Forest Management Area, if only timber harvest values are considered.
COMMENT: While it may have been done, or is a part of Stand Projection System, it is not clear what, if any, economic analyses and associated sensitivity tests have been done. For the General Forest Management Area, do you know the most economically efficient management regime? That is, which regime yields the highest present net value?

RESPONSE: Each of the intensive management practices considered for application in the General Forest Management Area have been evaluated for their effect on present net value. These analyses were based on the yield outputs of the Stand Projection System (SPS) model. Although SPS is useful for providing estimates of future stand growth and yield under a selected management regime, it cannot reliably be used to choose an optimum regime.

### **Old Growth Forest**

COMMENT: The preferred alternative should be evaluated in terms of the Congressional report on "Alternatives for Management of Late-Successional Forests of the Pacific Northwest." Where does the preferred alternative fall on the chart on pages 31-2, especially with regard to "retaining ecologically functional Late Successional/Old Growth forests and associated species for a century or longer?"

RESPONSE: The proposed resource management plan is based on management direction in the record of decision for the SEIS. Management direction in the record of decision was developed based on many preexisting scientific documents including the report mentioned in this comment.

COMMENT: The age-based definition of old-growth forests is inadequate. They should instead be defined on the basis of their ecological characteristics.

RESPONSE: Based on observations in the Salem District, BLM disagrees that an age-based definition is inadequate. Stands aged 200 years and older appear to fit the current perception of what old growth is like. There are some stands in the Salem District that have a sparse overstory of old-growth trees and a dominant understory of younger trees. These stands were not included as old growth. They include approximately 12,000 acres of forest.

#### Socioeconomic

COMMENT: The Salem District has assumed worker migration, counseling, retraining and other social programs will mitigate employment and income losses expected under several alternatives. There is no information to support such claims.

RESPONSE: The draft resource management plan states that "Incentives or economic assistance could be provided by federal, state, or local governments to partially mitigate these impacts" (see chapter 4-74). BLM has not assumed total mitigation of these impacts. As stated in chapter 4, adverse social and economic impacts would occur under some alternatives. The state of Oregon is anticipating such impacts and responding through a Coordinated Timber Response Plan (see chapter 4-74). The Clinton Administration responded by proposing to Congress an economic stimulus funding package for western Oregon. If this funding is approved, BLM will be preparing resource development contracts to stimuluse local business.

COMMENT: Most of the people that visit the Nestucca-Yamhill Riding Area stop for gas, snacks, and meals at Willamina, Sheridan, and other local communities. The area also broadens recreation opportunities for nearby communities. These opportunities, as well as the money brought into these towns, should be mentioned in your "Community Stability" section.

RESPONSE: A statement to this effect for all communities in the district is included in the community stability section. The actual extent to which specific communities would benefit is unknown.

#### Appendix JJ

COMMENT: In your calculations of income to counties have you factored in the lower value of the timber to be produced?

RESPONSE: We believe timber produced on BLM-administered lands will continue to be of high value. In estimating income to counties based on timber sales receipts, no adjustment was made for future differences in type of wood harvested. As reported in the chapter 4 discussion of Socioeconomic Effects, in comparison to the 1984-1988 baseline period, higher prices for wood are expected due to the reduced supply from federal lands.

COMMENT: The preferred alternative would result in harvests and revenues to the counties that are only slightly more than half of the historical levels. This can hardly be viewed as a credible attempt to provide "a permanent source of raw materials for the support of dependent communities and local industries of the region."

RESPONSE: One of the purposes of ecosystem management is to find a long-term solution to the western Oregon forest management crisis. If the proposed resource management plan becomes the solution, a permanent source of raw materials will be available to help mills continue producing or nonce again produce lumber.

COMMENT: The no action alternative shows a harvest of 239.2 million board feet as compared to the 136.5 million board feet for the preferred alternative. Yet in table 4-33, page 4-72, the payments to counties is essentially equal under both. This is due to an assumed doubling or more of stumpage values. I realize that the U.S. Forest Service has provided you with these numbers. What other estimates of stumpage value have you considered, along with historical evidence of changes in stumpage value?

RESPONSE: No other estimates of stumpage value were considered. The Timber Assessment Market Model is based on historical evidence of changes in stumpage value. Additional discussion of timber pricing is found in appendix CC.

## Roads

COMMENT: Another issue concerning roads is the need to be consistent in information about public access. As noted on page 3-6, only 50 percent of the existing road network is open to public use. Throughout the plan, there are other comments which ignore this restriction. These include: "Some 287,700 acres would be open yearround to motorized vehicle use (see table 2-1)" (p. 2-37 and p. 2-48).

RESPONSE: Nearly 86 percent of the existing road network is open to public vehicular travel (2,143 miles open; 360 miles closed). The 50 percent figure discussed on page 3-6 applies to the amount of BLM-administered land having legal public access. These are two distinctly different issues. With respect to off-highway vehicle designations, the process does not consider availability of public access. There are several reasons for this: (1) users may obtain permission to cross private land to get to BLM-administered land; (2) many contiguous parcels of BLM-administered are accessible by trail; and (3) future road building by BLM may provide access.

# **Rural Interface**

COMMENT: It is disturbing to see the BLM opting for minimal management in rural interface areas in an attempt to avoid disagreements with adjacent landowners. We suggest site-specific adjustments to general forest management area prescriptions where necessary rather than imposing visual resource management classification VPM II restrictions in all interface areas.

RESPONSE: As stated in chapter 2 of the draft resource management plan (chapter 2-38), "Special management practices would be considered on a case-by-case basis in [rural interface areas]". The visual resource management classes selected by area managers would apply in these areas. They vary from class I to class IV.

COMMENT: Rural interface areas - we concur with the preferred alternative in the plan. However, the plan should be expanded to include the added cost of fire protection created by dwellings. RESPONSE: A statement about the added cost of fire suppression has been added to chapter 3, Rural Interface Areas. Since the placement of dwellings on private land is not controlled by BLM, the added cost of fire suppression due to dwellings is not an appropriate impact to address in the proposed resource management plant/final environmental impact statement.

COMMENT: The significance and impact of management activities in rural interface areas was inadequately addressed in the draft plan. The Mt. Hood Corridor as a rural interface area was not addressed at all.

RESPONSE: There are too many rural interface areas in the district to address them individually in this document. Also, Information regarding number of dwellings, attitudes of residents, etc., is generally not available. Individual areas will be addressed in future watershed analysis site-specific plans and environmental assessments.

The impacts of future BLM management activities in the Mt. Hood Corridor were considered minimal in the draft resource management plan analysis due to a combination of land use allocations, including visual resource management classes I and II. special recreation management area, wild and scenic river corridor and Connectivity/Diversity Block(s) (i.e., 200-year timber harvest rotation). Impacts in the proposed resource management plan will be further reduced by allocation of the ridge-to-ridge area along the Mt. Hood Highway as visual resource management class I. The visual resource management class I classification applies only to BLM-administered lands.

#### Fire

COMMENT: How long can you cut off all vegetation--then burn the rest--and expect to continue growing trees on such abused soil?

RESPONSE: The Salem District used the FORCYTE II model (see appendix T) to analyze the many varied prescriptions that could be used under the proposed alternatives by three levels of broadcast burning. The analysis determined the long-term productivity trend and site quality trend from the various prescriptions by the various average sites identified on the district. Many of the management scenarios indicated that long-term productivity and site quality could be maintained and or enhanced through management. This is increasingly the case as we avoid or use light broadcast burns for site preparation, increase fertilizer use, increase rotation lengths and leave a legacy of large wood on the site to provide for soil maintenance.

COMMENT: From a fire prevention and suppression aspect, will the BLM be responsible for the additional hazard presented by retaining "biological legacies" on their lands? With the drop in timber receipts, where will the additional monies come from to pay for the "Insurance" for fire protection/suppression?

RESPONSE: Biological legacies will be similar to those that occur naturally. Their appearance will vary from site to site. All activities which create forest fuels are analyzed in relation to fire hazard. The BLM has the responsibility to determine fire hazard and the obligation to mitigate any such hazards by appropriate fuels management treatments. Consequently, we do not presume these legacies to be considered "additional hazard" under the current Oregon fire Aw. The BLM works with the Oregon Department of Forestry to ensure management activities are consistent with state statutes.

Funding for fire protection does not come from timber receipts. Consequently, timber receipts do not directly impact fire protection on BLM-administered lands. Fire protection funding is appropriated through Congress for all BLM-administered lands including Western Oregon. This includes contributions to the Forest Land Protection Fund for the suppression costs beyond what is included in the current contract. Wildfires which are the responsibility of the BLM are paid from the federal emergency fire account.

COMMENT: The comments concerning "conditional fire suppression" on page 2-20 should not apply in those areas where fires on BLM property could spread to private land. It would be irresponsible for BLM personnel to limit efforts in fire suppression, subjecting private lands to additional fire risk.

#### Appendix JJ

RESPONSE: The BLM fire planning manual states that all suppression efforts will be intensive or conditional.

Intensive suppression implies that no amount of resource loss is acceptable.

Conditional suppression implies the suppression activities (presuppression and suppression) will be commensurate with the values at risk. It does not imply that the BLM has a choice or decision to make suppressing any fire occurring on BLM-administered lands. All fires on BLM-administered lands will be aggressively suppressed. The protection standard for BLM-administered lands is the same for private industrial land onoindustrial lands.

There is no implied limitation on fire suppression strategy or tactics. The BLM will continue to work closely with all landowners during suppression actions in accordance with protection contract with the Oregon Department of Forestry. Consequently, the adjacent private lands are not subject to additional fire risk.



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